

L Number	Hits	Search Text	DB	Time stamp
-	1	6314521.pn. and (transmit\$5 or sent or send or deliver\$6) near5 key\$1	USPAT	2004/04/28 15:27
-	2	printer with (secret adj (ID or identifier\$1 or number\$1)) with (transmit\$5 or sent or send)	USPAT	2004/04/28 15:32
-	14	printer near5 (secret adj (ID or identifier\$1 or number\$1))	USPAT	2004/04/28 15:37
-	613	printer adj (ID or identifier\$1 or number\$1)	USPAT	2004/04/28 15:38
-	24	(printer adj (ID or identifier\$1 or number\$1)) and (secret or public) with key\$1	USPAT	2004/04/28 15:41
-	67	printer with (identifier\$2 or id or number\$1) with (public or secret or private)	USPAT	2004/04/28 15:42
-	42	(printer with (identifier\$2 or id or number\$1) with (public or secret or private)) and @ad<19990101	USPAT	2004/04/28 16:14
-	5	authenticat\$5 adj printer	USPAT	2004/04/28 16:20
-	2	("6314521" "6385728").pn. and (transmit\$5 or sent or send or transfer\$4 or connect\$5) and id	USPAT	2004/04/28 16:28
-	2	("6314521" "6385728").pn. and (transfer\$5 or transmit\$5)	USPAT	2004/04/28 16:31
-	0	(secret adj identifier) with printer with register\$5	USPAT	2004/04/28 16:32
-	0	(secret adj identifier\$2) with printer with register\$5	USPAT	2004/04/28 16:32
-	0	(secret adj identifier\$2) with printer\$1 with register\$5	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/28 16:32
-	0	(secret near5 identifier\$2) with printer\$1 with register\$5	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/28 16:33
-	2029777	(secret near5 identifier\$2) near\$5 printer\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/28 16:36
-	338	((secret near5 identifier\$2) near\$5 printer\$1) and registration adj server	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/28 16:33
-	132	((secret near5 identifier\$2) near\$5 printer\$1) and registration adj server) and (public or secret or private) adj key\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/28 16:34
-	9	((((secret near5 identifier\$2) near\$5 printer\$1) and registration adj server) and (public or secret or private) adj key\$1) and @ad<19990101	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/28 16:35
-	10	(((secret near5 identifier\$2) near\$5 printer\$1) and registration adj server) and (public or secret or private) adj key\$1) and @ad<20000101	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/28 16:35
-	1608303	(secret near5 identifier\$2) near\$5 printer\$1 near5 (registration adj server) with (public or private or secret) with key\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/28 16:37

	1607954	(secret adj unique adj identifier\$2) near\$5 printer\$1 near5 (registration adj server) with (public or private or secret) with key\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;	2004/04/28 16:37
	1607954	(secret adj unique adj identifier\$2) near\$5 printer\$1 near5 (registration adj server) near10 (public or private or secret) near10 key\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;	2004/04/28 16:38
	3	(secret adj unique adj identifier\$2)	USPAT; US-PGPUB; EPO; JPO; DERWENT;	2004/04/28 16:39
	3	siverbrook.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT;	2004/04/28 16:39
	1558	silverbrook.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT;	2004/04/28 16:39
	136	silverbrook.in. and printer\$1 and public adj key\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT;	2004/04/28 16:40
	1	silverbrook.in. and printer\$1 and public adj key and secret near10 identifier	USPAT; US-PGPUB; EPO; JPO; DERWENT;	2004/04/28 16:41
	1	silverbrook.in. and printer\$1 and public adj key and secret near10 identifier\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT;	2004/04/28 16:41
	92	silverbrook.in. and printer\$1 and (public adj key) and identifier\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT;	2004/04/28 16:42
	102	silverbrook.in. and printer\$1 and registration adj server	USPAT; US-PGPUB; EPO; JPO; DERWENT;	2004/04/28 16:43
	96	silverbrook.in. and printer\$1 with registration adj server	USPAT; US-PGPUB; EPO; JPO; DERWENT;	2004/04/28 16:43
	0	silverbrook.in. and printer\$1 with registration adj server with install\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT;	2004/04/28 16:44
	96	silverbrook.in. and printer\$1 with (registration adj server) and authenticat\$6	USPAT; US-PGPUB; EPO; JPO; DERWENT;	2004/04/28 16:44
	1	silverbrook.in. and printer\$1 with (registration adj server) with authenticat\$6	USPAT; US-PGPUB; EPO; JPO; DERWENT;	2004/04/28 16:45

-	96	silverbrook.in. and printer\$1 with (registration adj server) and authenticat\$6 and identifier	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB;	2004/04/28 16:45
-	96	silverbrook.in. and printer\$1 with (registration adj server) and transmit\$6	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB;	2004/04/28 16:46
-	92	silverbrook.in. and printer\$1 with (registration adj server) with transmit\$6	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB;	2004/04/28 16:49
-	0	(silverbrook.in. and printer\$1 with (registration adj server) with transmit\$6) and claim	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB;	2004/04/28 16:48
-	0	(silverbrook.in. and printer\$1 with (registration adj server) with transmit\$6) and claims	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB;	2004/04/28 16:49
-	0	(silverbrook.in. and printer\$1 with (registration adj server) with transmit\$6) and claims	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB	2004/04/28 16:49
-	0	(silverbrook.in. and printer\$1 with (registration adj server) with transmit\$6) and claim\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB	2004/04/28 16:50
-	0	(silverbrook.in. and printer\$1 with (registration adj server) with transmit\$6) and claim\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB	2004/04/28 16:50
-	2809212	silverbrook.in. nd @ay<1999	USPAT; US-PGPUB	2004/04/28 16:51
-	220	silverbrook.in. and @ay<1999	USPAT; US-PGPUB	2004/04/28 16:51
-	220	silverbrook.in. and @ad<19990101	USPAT; US-PGPUB	2004/04/28 16:53
-	55891	(transmi\$7 or transfer\$6) near5 iden\$6	USPAT; US-PGPUB	2004/04/28 16:54
-	10197	(transmi\$7 or transfer\$6) near5 identifier\$1	USPAT; US-PGPUB	2004/04/28 16:54
-	6	(transmi\$7 or transfer\$6) near5 identifier\$1 near10 printer near10 server	USPAT; US-PGPUB	2004/04/28 16:54
-	11	(transmi\$7 or transfer\$6) near5 identifier\$1 near10 printer near10 server	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/28 16:54

File 9:Business & Industry(R) Jul/1994-2004/Apr 28  
(c) 2004 The Gale Group  
File 16:Gale Group PROMT(R) 1990-2004/Apr 29  
(c) 2004 The Gale Group  
File 47:Gale Group Magazine DB(TM) 1959-2004/Apr 29  
(c) 2004 The Gale group  
File 148:Gale Group Trade & Industry DB 1976-2004/Apr 29  
(c) 2004 The Gale Group  
File 160:Gale Group PROMT(R) 1972-1989  
(c) 1999 The Gale Group  
File 275:Gale Group Computer DB(TM) 1983-2004/Apr 29  
(c) 2004 The Gale Group  
File 570:Gale Group MARS(R) 1984-2004/Apr 29  
(c) 2004 The Gale Group  
File 621:Gale Group New Prod.Annou.(R) 1985-2004/Apr 28  
(c) 2004 The Gale Group  
File 636:Gale Group Newsletter DB(TM) 1987-2004/Apr 29  
(c) 2004 The Gale Group  
File 649:Gale Group Newswire ASAP(TM) 2004/Apr 28  
(c) 2004 The Gale Group

Set	Items	Description
S1	520664	PRINTER? ?
S2	75970	(PRINTING OR PRINT) (1W) (DEVICE? ? OR APPARAT? OR APP?? ? OR EQUIPMENT? OR APPLIANCE? OR SYSTEM? ? OR MACHINE???? ? OR CO-MPONENT? OR MODULE? ? OR INSTRUMENT? OR MECHANISM? OR UNIT? ? OR ASSEMBL??? ?)
S3	300518	SECRET
S4	763	S3(2N) (IDENTIFIER? ? OR TAG? ? OR LABEL??? ? OR LABELL??? OR ID OR IDENTIFICATION? OR DESIGNATION? OR DESIGNAT?R? ? OR - INDICANT? ? OR INDICAT?R? ?)
S5	4584	S3(2N) (INTEGER? ? OR NUMBER? ? OR NUMERAL? ? OR NUMERIC?? ? OR ALPHANUMERIC? OR SYMBOL? ? OR INDICIA? ? OR CODE OR CODES OR CODING? ?)
S6	828	S3(2N) (SUBCOD???? ? OR MICROCOD???? ? OR VALUE OR VALUES OR SEQUENCE? OR STRING? ? OR SUBSTRING? OR DIGIT? ? OR CHARACTE-R? ?)
S7	43603	(PUBLIC OR ASYMMETRIC OR CONVENTIONAL OR SYMMETRIC OR PRIV- ATE OR SECRET) (1W) (KEY? ? OR CIPHER? OR CYpher?)
S8	69686	(TWO OR PAIR??? ? OR DUAL) (1W) KEY? ?
S9	35544	(SERIAL OR MODEL OR EQUIPMENT OR APPLIANCE OR MACHINE) (1W)- (NUMBER? ? OR IDENTIFIER? ? OR ID OR IDS OR IDENTIFICATION?)
S10	2950631	SERVER? OR HOST? ? OR HOSTING OR MAINFRAME? OR MAIN() FRAME? ? OR RAS
S11	40309	S10(5N) (AUTHENTICAT? OR VERIFIC? OR VERIFIIE? ? OR VERIFY? - OR VALIDAT? OR CERTIFIC? OR CERTIFY? OR CERTIFIE? ?)
S12	764	S1:S2(S)S4:S8
S13	825	S1:S2(S)S9
S14	0	S12(S)S13
S15	2	S12(S)S11
S16	0	S13(S)S11
S17	2	RD S15 (unique items)

?t17/3,k/all

17/3,K/1 (Item 1 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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06120131 Supplier Number: 53735690 (USE FORMAT 7 FOR FULLTEXT)  
**Stamping Out Crime. (US Postal Service selling stamps over Internet) (Government Activity)**

Bruno, Lee  
Data Communications, p16(1)  
Feb 7, 1999  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 194

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

...Postal Service (Washington, D.C.) to the tune of \$100 million a year. But PKI (**public key** infrastructure) technology could help staunch the flow of illicit dollars-and let customers buy postage...

...Postal Service lets owners of special digital meters download postage over the Internet. Its PKI **server** issues each meter a digital **certificate** that authenticates the device, and end-users can then print the postage on envelopes in...

...postage directly to desktop PCs, allowing users to run out the bar codes via networked **printers**. The PKI for the U.S. Postal Service is scalable enough to generate and manage...

17/3,K/2 (Item 1 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
(c) 2004 The Gale Group. All rts. reserv.

02022337 SUPPLIER NUMBER: 18962650 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Database confidential. (News Briefs) (Column)

Hunter, Buzz

Data Based Advisor, v15, n1, p90(1)

Jan, 1997

DOCUMENT TYPE: Column ISSN: 0740-5200 LANGUAGE: English

RECORD TYPE: Fulltext

WORD COUNT: 890 LINE COUNT: 00071

... scanned by a Dot Receptor that can be fitted to most personal computers through the **printer** port. The chip inside the casing **authenticates** the user to a **server** computer using a combination of the information in the iButton and a PIN. One model of the iButton randomly generates a public and **private key** set. The really big plans for the iButton involve making it into a secure micro...  
?

'File 696:DIALOG Telecom. Newsletters 1995-2004/Apr 28  
(c) 2004 The Dialog Corp.  
File 15:ABI/Inform(R) 1971-2004/Apr 28  
(c) 2004 ProQuest Info&Learning  
File 98:General Sci Abs/Full-Text 1984-2004/Apr  
(c) 2004 The HW Wilson Co.  
File 484:Periodical Abs Plustext 1986-2004/Apr W4  
(c) 2004 ProQuest  
File 553:Wilson Bus. Abs. FullText 1982-2004/Apr  
(c) 2004 The HW Wilson Co  
File 813:PR Newswire 1987-1999/Apr 30  
(c) 1999 PR Newswire Association Inc  
File 613:PR Newswire 1999-2004/Apr 29  
(c) 2004 PR Newswire Association Inc  
File 635:Business Dateline(R) 1985-2004/Apr 28  
(c) 2004 ProQuest Info&Learning  
File 810:Business Wire 1986-1999/Feb 28  
(c) 1999 Business Wire  
File 610:Business Wire 1999-2004/Apr 29  
(c) 2004 Business Wire.  
File 369:New Scientist 1994-2004/Apr W3  
(c) 2004 Reed Business Information Ltd.  
File 370:Science 1996-1999/Jul W3  
(c) 1999 AAAS  
File 20:Dialog Global Reporter 1997-2004/Apr 29  
(c) 2004 The Dialog Corp.  
File 624:McGraw-Hill Publications 1985-2004/Apr 28  
(c) 2004 McGraw-Hill Co. Inc  
File 634:San Jose Mercury Jun 1985-2004/Apr 28  
(c) 2004 San Jose Mercury News  
File 647:CMP Computer Fulltext 1988-2004/Apr W3  
(c) 2004 CMP Media, LLC  
File 674:Computer News Fulltext 1989-2004/Apr W3  
(c) 2004 IDG Communications

Set	Items	Description
S1	252568	PRINTER? ?
S2	30597	(PRINTING OR PRINT) (1W) (DEVICE? ? OR APPARAT? OR APP?? ? OR EQUIPMENT? OR APPLIANCE? OR SYSTEM? ? OR MACHINE???? ? OR COMPONENT? OR MODULE? ? OR INSTRUMENT? OR MECHANISM? OR UNIT? ? OR ASSEMBL??? ?)
S3	533525	SECRET
S4	637	S3(2N) (IDENTIFIER? ? OR TAG? ? OR LABEL??? ? OR LABEL???) OR ID OR IDENTIFICATION? OR DESIGNATION? OR DESIGNAT?R? ? OR INDICANT? ? OR INDICAT?R? ?)
S5	5465	S3(2N) (INTEGER? ? OR NUMBER? ? OR NUMERAL? ? OR NUMERIC?? ? OR ALPHANUMERIC? OR SYMBOL? ? OR INDICIA? ? OR CODE OR CODES OR CODING? ?)
S6	891	S3(2N) (SUBCOD???? ? OR MICROCOD???? ? OR VALUE OR VALUES OR SEQUENCE? OR STRING? ? OR SUBSTRING? OR DIGIT? ? OR CHARACTER? ?)
S7	27242	(PUBLIC OR ASYMMETRIC OR CONVENTIONAL OR SYMMETRIC OR PRIVATE OR SECRET) (1W) (KEY? ? OR CIPHER? OR CYpher?)
S8	70040	(TWO OR PAIR??? ? OR DUAL) (1W) KEY? ?
S9	24765	(SERIAL OR MODEL OR EQUIPMENT OR APPLIANCE OR MACHINE) (1W) - (NUMBER? ? OR IDENTIFIER? ? OR ID OR IDS OR IDENTIFICATION?)
S10	2262607	SERVER? OR HOST? ? OR HOSTING OR MAINFRAME? OR MAIN() FRAME? ? OR RAS
S11	23421	S10(5N) (AUTHENTICAT? OR VERIFIC? OR VERIFIE? ? OR VERIFY? - OR VALIDAT? OR CERTIFIC? OR CERTIFY? OR CERTIFIE? ?)
S12	477	S1:S2(S)S4:S8
S13	344	S1:S2(S)S9
S14	3	S12(S)S13
S15	9	S12(S)S11
S16	0	S13(S)S11
S17	12	S14:S15
S18	10	RD (unique items)

18/3,K/1 (Item 1 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
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01497484 01-48472  
**A patent expires, paving the road to secure e-commerce**  
Omura, Jim  
Network World v14n36 PP: 40 Sep 8, 1997  
ISSN: 0887-7661 JRNLL CODE: NWW  
WORD COUNT: 631

...TEXT: Hewlett-Packard's Web page and sign a digital check to buy a printer. Her **certificate** will allow the HP Web **server** to **verify** her signature 's authenticity, but it won't be able to tell if her electronic ...

... with her banking privileges, including limits on any digital checks she may sign with her **public - key** digital signature. Attaching her bank's privilege certificate along with her Japanese MPT identification **certificate** would enable the HP **server** to **authenticate** her digitally signed check and verify that it is backed by the Bank of Tokyo...

18/3,K/6 (Item 1 from file: 647)  
DIALOG(R)File 647:CMPI Computer Fulltext  
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01184166 CMP ACCESSION NUMBER: DAC19990207S0012  
**Stamping Out Crime**  
Lee Bruno (San Mateo, Calif.).  
DATA COMMUNICATIONS, 1999, n 2802, PG16  
PUBLICATION DATE: 990207  
JOURNAL CODE: DAC LANGUAGE: English  
RECORD TYPE: Fulltext  
SECTION HEADING: Newsfront  
WORD COUNT: 191

TEXT:  
... Postal Service (Washington, D.C.) to the tune of \$100 million a year. But PKI (**public key** infrastructure) technology could help staunch the flow of illicit dollars-and let customers buy postage...

...Postal Service lets owners of special digital meters download postage over the Internet. Its PKI **server** issues each meter a digital **certificate** that authenticates the device, and end-users can then print the postage on envelopes in...

...postage directly to desktop PCs, allowing users to run out the bar codes via networked **printers**. The PKI for the U.S. Postal Service is scalable enough to generate and manage...  
?t18/3,k/10

18/3,K/10 (Item 4 from file: 674)  
DIALOG(R)File 674:Computer News Fulltext  
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074732  
**NOS showdown: NT vs. LINUX**  
While Microsoft has the edge over Linux as a server operating system for the enterprise, don't count the little guy out.  
Byline: Tom Henderson  
Journal: Network World Page Number: 53  
Publication Date: May 17, 1999  
Word Count: 2335 Line Count: 221

Text:  
... basic network operating system (NOS) function - printing - we used a Lexmark Optra 1865 color laser **printer**, set up as a TCP/IP print server

over Fast Ethernet, and a Hewlett-Packard LaserJet 4 as a locally connected parallel **printer**. NT Server offers print services for locally attached **printers**, and spooling or queuing a job is easily controlled from any Windows desktop. NT Server supports **printer** shares for locally attached **printers** and network **printers** that have their own built-in print server controllers. Linux allows users to share networked **printers** in one of two ways. **Printers** can be hooked up to the Linux net as either a Server Message Block (SMB) shared device, represented to users as a Windows **Printer** Share, or (using a Lexmark **printer** driver) as a Unix-style lpr device. In either case, the Linux server spools print...over user authentication. It is possible to connect Linux servers using Lightweight Directory Access Protocol **servers** to construct off- **server authentication** authorities. Or you can configure Samba, an open-source application that provides file and print...

... ROM filing systems. NT has another security advantage in that the Option Pack includes a **certificate server**, also known as a **certificate authority** (CA). CAs can be used by e-mail applications for authentication using **public - key** infrastructure. In the future, many vendors are planning to use CAs for user logon authentication, as well as encryption and decryption. OpenLinux lacks a **certificate server**. Internet and LAN access Both **server** operating systems support Web, Network News Transfer Protocol and FTP services for giving end users...  
?

File 256:SoftBase:Reviews,Companies&Prods. 82-2004/Mar  
(c)2004 Info.Sources Inc

File 2:INSPEC 1969-2004/Apr W3  
(c) 2004 Institution of Electrical Engineers

File 6:NTIS 1964-2004/Apr W4  
(c) 2004 NTIS, Intl Copyrgh All Rights Res

File 8:Ei Compendex(R) 1970-2004/Apr W3  
(c) 2004 Elsevier Eng. Info. Inc.

File 34:SciSearch(R) Cited Ref Sci 1990-2004/Apr W4  
(c) 2004 Inst for Sci Info

File 35:Dissertation Abs Online 1861-2004/Mar  
(c) 2004 ProQuest Info&Learning

File 65:Inside Conferences 1993-2004/Apr W4  
(c) 2004 BLDSC all rts. reserv.

File 94:JICST-EPlus 1985-2004/Apr W2  
(c)2004 Japan Science and Tech Corp(JST)

File 95:TEME-Technology & Management 1989-2004/Apr W2  
(c) 2004 FIZ TECHNIK

File 99:Wilson Appl. Sci & Tech Abs 1983-2004/Mar  
(c) 2004 The HW Wilson Co.

File 111:TGG Natl.Newspaper Index(SM) 1979-2004/Apr 29  
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(c) 2003 EBSCO Pub.

File 266:FEDRIP 2004/Feb  
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File 483:Newspaper Abs Daily 1986-2004/Apr 28  
(c) 2004 ProQuest Info&Learning

File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13  
(c) 2002 The Gale Group

File 603:Newspaper Abstracts 1984-1988  
(c)2001 ProQuest Info&Learning

Set	Items	Description
S1	91129	PRINTER? ?
S2	24206	(PRINTING OR PRINT) (1W) (DEVICE? ? OR APPARAT? OR APP?? ? OR EQUIPMENT? OR APPLIANCE? OR SYSTEM? ? OR MACHINE???? ? OR CO-MONENT? OR MODULE? ? OR INSTRUMENT? OR MECHANISM? OR UNIT? ? OR ASSEMBL??? ?)
S3	74806	SECRET
S4	158	S3(2N) (IDENTIFIER? ? OR TAG? ? OR LABEL??? ? OR LABELL??? OR ID OR IDENTIFICATION? OR DESIGNATION? OR DESIGNAT?R? ? OR INDICANT? ? OR INDICAT?R? ?)
S5	939	S3(2N) (INTEGER? ? OR NUMBER? ? OR NUMERAL? ? OR NUMERIC?? ? OR ALPHANUMERIC? OR SYMBOL? ? OR INDICIA? ? OR CODE OR CODES OR CODING? ?)
S6	292	S3(2N) (SUBCOD???? ? OR MICROCOD???? ? OR VALUE OR VALUES OR SEQUENCE? OR STRING? ? OR SUBSTRING? OR DIGIT? ? OR CHARACTE-R? ?)
S7	18934	(PUBLIC OR ASYMMETRIC OR CONVENTIONAL OR SYMMETRIC OR PRIV-ATE OR SECRET) (1W) (KEY? ? OR CIPHER? OR CYPHER?)
S8	15541	(TWO OR PAIR??? ? OR DUAL) (1W) KEY? ?
S9	14712	(SERIAL OR MODEL OR EQUIPMENT OR APPLIANCE OR MACHINE) (1W) - (NUMBER? ? OR IDENTIFIER? ? OR ID OR IDS OR IDENTIFICATION?)
S10	891786	SERVER? OR HOST? ? OR HOSTING OR MAINFRAME? OR MAIN() FRAME? ? OR RAS
S11	3095	S10(5N) (AUTHENTICAT? OR VERIFIC? OR VERIFIIE? ? OR VERIFY? - OR VALIDAT? OR CERTIFIC? OR CERTIFY? OR CERTIFIE? ?)
S12	49	S1:S2 AND S4:S8
S13	68	S1:S2 AND S9
S14	0	S12 AND S13
S15	0	S12 AND S11

S16 0 S13 AND S11  
S17 29065 AUTHENTICAT?  
S18 1179136 VERIFIC? OR VERIFIIE? ? OR VERIFY? OR VALIDAT? OR CERTIFIC?  
OR CERTIFY? OR CERTIFIE? ?  
S19 9 S12 AND S17:S18  
S20 3 S13 AND S17:S18  
S21 12 S19:S20  
S22 9 RD (unique items)

22/9/9 (Item 1 from file: 583)  
DIALOG(R)File 583:Gale Group Globalbase(TM)  
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09940070  
Toppan Printing, Others Develop Non-Contact PKI System  
Japan: Toppan created new **verification** system  
Nikkei Net Interactive (ATM) 27 Nov 2002 NikkeiBusiness Daily Online  
Language: ENGLISH

In Japan, Toppan Printing Co (Toppan) together with Soliton Systems KK and VeriSign Japan KK, a provider of digital **authentication** service, have jointly invented an electronic PKI (**public key** infrastructure) **verification** system, which is believed to be the first in the world. The system uses the FeliCa non-contact Smart IC card recommended by Sony Corp.

COMPANY: TOPPAN PRINTING ; SOLITON SYSTEMS ; VERISIGN JAPAN; SONY

PRODUCT: Intruder Prevention Systems (3662IP);  
EVENT: Product Design & Development (33); Company Formation (14);  
COUNTRY: Japan (9JPN);  
?

File 347:JAPIO Nov 1976-2003/Dec(Updated 040402)  
(c) 2004 JPO & JAPIO  
File 350:Derwent WPIX 1963-2004/UD,UM &UP=200427  
(c) 2004 Thomson Derwent  
File 348:EUROPEAN PATENTS 1978-2004/Apr W02  
(c) 2004 European Patent Office  
File 349:PCT FULLTEXT 1979-2002/UB=20040415, UT=20040408  
(c) 2004 WIPO/Univentio

Set	Items	Description
S1	425	AU='LAPSTUN P':AU='LAPSTUN PAUL SILVERBROOK RESEARCH PTY LTD'
S2	1187	AU='SILVERBROOK K':AU='SILVERBROOK KIA SILVERBROOK RESEARCH PTY LTD'
S3	325	S1 AND S2
S4	728559	PRINTER? ? OR PRINTING
S5	1558	S4(3N) (AUTHENTICAT? OR VERIFIC? OR VERIFI? ? OR VERIFY? OR VALIDAT? OR CERTIFIC? OR CERTIFY? OR CERTIFIE? ?)
S6	103	S1:S2 AND S5
S7	13	S5(10N) IDENTIFIER? ?
S8	37	S5(10N) (REGISTRATR? OR REGISTER?)
S9	7	S1:S2 AND S7:S8

**9/9/1 (Item 1 from file: 350)**

DIALOG(R) File 350:Derwent WPIX  
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013596184 \*\*Image available\*\*

WPI Acc No: 2001-080391/200109

Related WPI Acc No: 2001-032072; 2001-032073; 2001-041078; 2001-049870; 2001-049889; 2001-061375; 2001-061376; 2001-061377; 2001-061378; 2001-061379; 2001-061380; 2001-061383; 2001-061384; 2001-061385; 2001-061386; 2001-070855; 2001-070886; 2001-070887; 2001-070889; 2001-080332; 2001-080380; 2001-091017; 2001-091018; 2001-091019; 2001-091020; 2001-102299; 2001-102300; 2001-102301; 2001-102302; 2001-146741; 2001-146742; 2001-146761; 2001-202518; 2001-244051; 2001-244052; 2001-244069; 2001-244070; 2001-257289; 2001-257290; 2001-257291; 2001-257292; 2001-257293; 2001-257336; 2001-257337; 2001-257338; 2001-257339; 2001-257341; 2001-257342; 2001-257343; 2001-257344; 2001-257345; 2001-265579; 2001-290116; 2001-328123; 2001-328124; 2001-335483; 2001-335752; 2001-354478; 2001-354825; 2001-355202; 2001-367045; 2001-374344; 2001-380760; 2001-381052; 2001-389385; 2001-389410; 2001-389418; 2001-397607; 2001-417832; 2001-425321; 2001-425322; 2001-425329; 2001-425338; 2001-425352; 2001-432690; 2001-464464; 2001-464465; 2001-464466; 2001-464473; 2001-464474; 2001-521241; 2001-521256; 2001-522897; 2001-541233; 2001-564790; 2001-564791; 2001-564792; 2001-564793; 2001-580761; 2001-580897; 2001-616166; 2001-625734; 2001-625756; 2002-074883; 2002-074884; 2002-074885; 2002-074886; 2002-074887; 2002-074888; 2002-147314; 2002-147316; 2002-226131; 2002-315396; 2002-351585; 2002-382643; 2002-382644; 2002-425623; 2002-636105; 2002-665882; 2004-096457

XRPX Acc No: N01-061265

Network printer registration protocol authenticates printer by comparing secret identifiers of printer and server, which are transmitted between printer and server over network

Patent Assignee: SILVERBROOK K (SILV-I); SILVERBROOK RES PTY LTD (SILV-N)

Inventor: LAPSTUN P ; SILVERBROOK K

Number of Countries: 094 Number of Patents: 008

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200072499	A1	20001130	WO 2000AU540	A	20000524	200109 B
AU 200047279	A	20001212	AU 200047279	A	20000524	200115
BR 200010860	A	20020702	BR 200010860	A	20000524	200252
			WO 2000AU540	A	20000524	
EP 1222768	A1	20020717	EP 2000929056	A	20000524	200254
			WO 2000AU540	A	20000524	
CN 1359573	A	20020717	CN 2000809804	A	20000524	200268
JP 2003500713	W	20030107	JP 2000619850	A	20000524	200314
			WO 2000AU540	A	20000524	
AU 761466	B	20030605	AU 200047279	A	20000524	200341
MX 2001012133	A1	20030701	WO 2000AU540	A	20000524	200420
			MX 200112133	A	20011126	

Priority Applications (No Type Date): AU 991313 A 19990630; AU 99559 A 19990525

#### Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
WO 200072499	A1	E	92 H04L-009/00	Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TZ UG ZW
AU 200047279	A			Based on patent WO 200072499
BR 200010860	A		H04L-009/00	Based on patent WO 200072499
EP 1222768	A1	E	H04L-009/00	Based on patent WO 200072499
			Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI	
CN 1359573	A		H04L-009/00	
JP 2003500713	W	150	G06F-003/12	Based on patent WO 200072499
AU 761466	B		H04L-009/00	Previous Publ. patent AU 200047279 Based on patent WO 200072499
MX 2001012133	A1		H04L-012/24	Based on patent WO 200072499

#### Abstract (Basic): WO 200072499 A1

NOVELTY - A secret unique identifier is stored in the printer and in database of registration server before the printer is connected to the network. When printer is connected to the network, the **printer** is **authenticated** by comparing the secret unique **identifiers** of printer and server, which are transmitted between printer and server over the network.

DETAILED DESCRIPTION - The secret unique identifier is stored in printer and server with public unique identifier. The secret unique identifier along with public unique identifier and public key of printer are transmitted to the registration server to authenticate printer connected to the network. An INDEPENDENT CLAIM is also included for network registration signal.

USE - For registering a printer such as high speed color printer on network.

ADVANTAGE - Periodicals from subscriber or authorized sources is only delivered unlike the fax or e-mail circuit. As signature recorded on netpage are automatically verified, e-commerce transactions are authorized reliably.

DESCRIPTION OF DRAWING(S) - The figure shows the schematic view of printer registration protocol.

pp; 92 DwgNo 50/55

Title Terms: NETWORK; PRINT; REGISTER; PROTOCOL; PRINT; COMPARE; SECRET; IDENTIFY; PRINT; SERVE; TRANSMIT; PRINT; SERVE; NETWORK

Derwent Class: P75; T01; T04; W01

International Patent Class (Main): G06F-003/12; H04L-009/00; H04L-012/24  
International Patent Class (Additional): B41J-029/38; H04L-009/32  
File Segment: EPI; EngPI  
Manual Codes (EPI/S-X): T01-C05A1; T01-D01; T01-H07P; T04-G10E; W01-A05B;  
W01-A06B5A; W01-A06E1; W01-A06F

9/5/2 (Item 1 from file: 349)  
DIALOG(R) File 349:PCT FULLTEXT  
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00985206 \*\*Image available\*\*

**IMAGE SENSING APPARATUS INCLUDING A MICROCONTROLLER**  
**APPAREIL DE DETECTION D'IMAGE COMPRENANT UN MICROCONTROLEUR**

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Patent Applicant/Inventor:

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Legal Representative:

SILVERBROOK Kia (agent), Silverbrook Research Pty Ltd, 393 Darling Street, Balmain, New South Wales 2041, AU,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200315395 A1 20030220 (WO 0315395)

Application: WO 2002AU919 20020709 (PCT/WO AU0200919)

Priority Application: US 2001922274 20010806

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW (EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SK TR (OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW (EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: H04N-001/00

International Patent Class: G06T-001/00; G06F-015/78

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 142364

English Abstract

An image sensing and processing apparatus includes an image sensor that is capable of generating signals carrying data relating to an image sensed by the image sensor. The apparatus includes a microcontroller. The microcontroller includes a wafer substrate. VLIW processor circuitry is positioned on the wafer substrate. Image sensor interface circuitry is positioned on the wafer substrate and is connected between the VLIW processor circuitry and the image sensor. The image sensor interface circuitry is configured to facilitate communication between the VLIW processor circuitry and the image sensor. Bus interface circuitry that is discrete from the image sensor interface circuitry is connected to the VLIW processor circuitry so that the VLIW processor circuitry can communicate with devices other than the image sensor via a bus.

French Abstract

L'invention concerne un appareil de detection et de traitement d'image comprenant un capteur d'image capable de generer des signaux portant des donnees relatives a une image detectee par ledit capteur d'image, et un microcontroleur dote d'un substrat de tranche. Un circuit de processeur VLIW est positionne sur ledit substrat de tranche. Un circuit d'interface de capteur d'image est egalement positionne sur le substrat de tranche et est connecte entre le circuit de processeur VLIW et le capteur d'image.

Ledit circuit d'interface de capteur d'image est configurer de facon a faciliter la communication entre le circuit de processeur VLIW et le capteur d'image. Un circuit d'interface de bus distant du circuit d'interface de capteur d'image est connecte au circuit de processeur VLIW de sorte que ce circuit peut communiquer avec d'autres dispositifs que le capteur d'image via le bus.

Legal Status (Type, Date, Text)

Publication 20030220 A1 With international search report.

Examination 20030320 Request for preliminary examination prior to end of 19th month from priority date

9/5/3 (Item 2 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00984066 \*\*Image available\*\*

A PRINTING CARTRIDGE WITH CAPACITIVE SENSOR IDENTIFICATION  
CARTOUCHE D'IMPRESSION COMPORTANT UNE FONCTION D'IDENTIFICATION DES CAPTEURS CAPACITIFS

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Patent Applicant/Inventor:

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Legal Representative:

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200313862 A1 20030220 (WO 0313862)

Application: WO 2002AU1055 20020806 (PCT/WO AU0201055)

Priority Application: US 2001922112 20010806

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW  
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SK TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: B41J-002/175

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 143013

English Abstract

A printing cartridge (1230) includes a housing (1231). An actuating formation (1240) is positioned on the housing and is capable of actuating a number of capacitive sensors (1238) in an array of such sensors. The actuating formation is configured to represent data relating to at least one of: a serial number of the cartridge, a media and a media colorant, so that the capacitive sensors, when actuated, together generate a signal carrying such data

**French Abstract**

L'invention concerne une cartouche d'impression (1230) qui comprend une enveloppe (1231). Un dispositif d'actionnement (1240) dispose sur l'enveloppe permet d'actionner un certain nombre de capteurs capacitifs (1238) disposés en réseau. Ce dispositif d'actionnement est conçu pour représenter des données se rapportant à au moins l'un des éléments suivants : un numéro de série de la cartouche, un support et un colorant de support, de sorte que lorsqu'ils sont actionnés, les capteurs capacitifs produisent un signal comportant ces données.

**Legal Status (Type, Date, Text)**

Publication 20030220 A1 With international search report.

Examination 20030417 Request for preliminary examination prior to end of 19th month from priority date

**9/5/4 (Item 3 from file: 349)**

DIALOG(R) File 349:PCT FULLTEXT

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00759082 \*\*Image available\*\*

NETWORK PUBLISHING AUTHORIZATION PROTOCOL

PROTOCOLE D'AUTORISATION DE PUBLIER POUR RESEAU

Patent Applicant/Assignee:

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Balmain, NSW 2041, AU, AU (Residence), AU (Nationality), (For all  
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AU (Nationality), (Designated only for: US

Patent and Priority Information (Country, Number, Date):

Patent: WO 200072505 A1 20001130 (WO 0072505)

Application: WO 2000AU541 20000524 (PCT/WO AU0000541)

Priority Application: AU 99559 19990525; AU 991313 19990630

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE  
DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC  
LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI  
SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE  
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: H04L-009/32

International Patent Class: G06F-003/12

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 30383

**English Abstract**

A network publishing authorization protocol, for use in a network connected to a printer, a server and a publisher of network publications. The protocol authorizes the printing of a publication at the printer. It includes the steps of: addressing the publication to a user; signing the publication using a private key; sending the publication to the printer; and confirming that the publication may be printed at the printer, by

verifying the private key signature. Confirmation may take place at the printer or at the server.

French Abstract

L'invention porte sur un protocole d'autorisation de publier pour reseau relie a une imprimante a un serveur et a un editeur de publications du reseau. Ledit protocole, qui autorise l'impression d'une publication sur une imprimante, comprend les phases suivantes: adressage d'une publication a un abonne, signature de la publication a l'aide d'un code prive; transfert de la publication a l'imprimante, et confirmation de l'autorisation d'impression par verification de la signature par code prive, ladite confirmation pouvant se faire au niveau de l'imprimante ou du serveur.

Legal Status (Type, Date, Text)

Publication 20001130 A1 With international search report.  
Examination 20010222 Request for preliminary examination prior to end of 19th month from priority date

9/5/5 (Item 4 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT  
(c) 2004 WIPO/Univentio. All rts. reserv.

00759080 \*\*Image available\*\*

INTERACTIVE DEVICE NETWORK REGISTRATION PROTOCOL  
PROTOCOLE D'ENREGISTREMENT RESEAU DE DISPOSITIF INTERACTIF

Patent Applicant/Assignee:

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Patent Applicant/Inventor:

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200072503 A1 20001130 (WO 0072503)

Application: WO 2000AU543 20000524 (PCT/WO AU0000543)

Priority Application: AU 99559 19990525; AU 991313 19990630; AU 20005829 20000224

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE  
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: H04L-009/30

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 29305

English Abstract

In a network connected to an interactive device and a registration server, a protocol for registering the interactive device with the

registration server, including the steps of: installing a secret key and a public unique identifier in non-volatile memory in the interactive device and in a database of the registration server, before the interactive device is connected to the network; then, when the interactive device is connected to the network, authenticating the interactive device at the server by verifying the interactive device's encryption, using the secret key, of a challenge message; and finally, if the authentication succeeds, registering the interactive device in the database of the registration server.

#### French Abstract

Cette invention a trait a un protocole d'enregistrement de dispositif interactif a un serveur d'enregistrement dans un reseau connecte a un dispositif interactif et a un serveur d'enregistrement. Ce protocole comporte les operations suivantes : mise en place d'une clef secrete et d'un identificateur unique public dans la memoire remanente du dispositif interactif et dans une base de donnees du serveur d'enregistrement avant la connexion du dispositif interactif au reseau puis, une fois le dispositif interactif connecte au reseau, authentification du dispositif interactif aupres du serveur par verification dans un message test du chiffrage du dispositif interactif, lequel chiffrage utilise la clef secrete et enfin, si l'authentification aboutit, enregistrement du dispositif interactif dans la base de donnees du serveur d'enregistrement.

#### Legal Status (Type, Date, Text)

Publication 20001130 A1 With international search report.  
Examination 20010222 Request for preliminary examination prior to end of 19th month from priority date

9/5/6 (Item 5 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT  
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00759076 \*\*Image available\*\*

#### NETWORK PRINTER REGISTRATION PROTOCOL

#### PROTOCOLE D'ENREGISTREMENT D'UNE IMPRIMANTE DANS UN RESEAU

##### Patent Applicant/Assignee:

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SILVERBROOK Kia, Silverbrook Research Pty Ltd, 393 Darling Street, Balmain, NSW 2041, AU, AU (Residence), AU (Nationality), (For all designated states except: US )

##### Patent Applicant/Inventor:

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##### Legal Representative:

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##### Patent and Priority Information (Country, Number, Date):

Patent: WO 200072499 A1 20001130 (WO 0072499)

Application: WO 2000AU540 20000524 (PCT/WO AU0000540)

Priority Application: AU 99559 19990525; AU 991313 19990630

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM  
Main International Patent Class: H04L-009/00  
International Patent Class: H04L-012/24  
Publication Language: English  
Filing Language: English  
Fulltext Availability:  
    Detailed Description  
    Claims  
Fulltext Word Count: 29585

English Abstract

In a network connected to a printer and a registration server, a network registration protocol for registering the printer on the network includes the steps of installing a secret unique identifier and public unique identifier in non-volatile memory in the printer and in a database of the registration server, before the printer is connected to the network; then, when the printer is connected to the network, authenticating the printer to the server by comparison of the secret unique identifiers installed in printer and server, using a secure transmission between the two over the network. Also a network registration signal for transmission over a network from a printer to a registration server to register the printer with the server, where the signal is transmitted at the first occasion the printer is connected to the network.

French Abstract

Dans un reseau relie a une imprimante et a un serveur d'enregistrement, on utilise pour enregistrer l'imprimante dans le reseau un protocole d'enregistrement comportant les phases suivantes: installation d'un identificateur secret unique et d'un identificateur publique unique dans une memoire non volatile de l'imprimante et dans la base d'enregistrement du serveur avant de raccorder l'imprimante au reseau; apres raccordement de l'imprimante, authentification imprimante/serveur par comparaison entre les identificateurs secrets uniques de l'imprimante et du serveur; et utilisation d'une transmission sure transitant par le reseau entre l'imprimante et le serveur. L'invention porte egalement sur le signal d'enregistrement de l'imprimante dans le serveur d'enregistrement, transitant par le reseau et allant de l'imprimante au serveur, et transmis lorsque l'imprimante est reliee pour la premiere fois au reseau.

Legal Status (Type, Date, Text)  
Publication 20001130 A1 With international search report.  
Examination 20010215 Request for preliminary examination prior to end of 19th month from priority date

9/5/7 (Item 6 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00758748 \*\*Image available\*\*  
NETWORK TERMINAL AUTHORIZATION PROTOCOL  
PROTOCOLE D'AUTORISATION POUR TERMINAL DE RESEAU  
Patent Applicant/Assignee:  
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AU (Residence), AU (Nationality), (For all designated states except: US )  
SILVERBROOK Kia, Silverbrook Research Pty Ltd, 393 Darling Street,  
Balmain, NSW 2041, AU, AU (Residence), AU (Nationality), (For all designated states except: US )  
Patent Applicant/Inventor:

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AU (Nationality), (Designated only for: US)  
Patent and Priority Information (Country, Number, Date):  
Patent: WO 200072136 A1 20001130 (WO 0072136)  
Application: WO 2000AU542 20000524 (PCT/WO AU0000542)  
Priority Application: AU 99559 19990525; AU 991313 19990630  
Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE  
DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC  
LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI  
SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE  
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM  
Main International Patent Class: G06F-003/12  
Publication Language: English  
Filing Language: English  
Fulltext Availability:  
Detailed Description  
Claims  
Fulltext Word Count: 29425

#### English Abstract

A network terminal authorization protocol, for use in a network connected to a printer, a server and a network terminal. The protocol authorizes, via the server, the printing of a document at the printer at the request of the network terminal. It includes the steps of: creating, at the server, an authorization record authorizing the network terminal to print at the printer; requesting, at the network terminal and via a printing request, printing of the document at the printer; verifying, using the authorization record, that the network terminal is authorized to print at the printer; and, in the event that the verification succeeds, sending the document to the printer for printing.

#### French Abstract

L'invention concerne un protocole d'autorisation pour terminal de reseau, qui s'utilise dans un reseau relie a une imprimante, un serveur et un terminal de reseau. Le protocole autorise, par l'intermediaire du serveur et a la demande du terminal de reseau, l'impression d'un document au moyen de l'imprimante. Le procede d'utilisation consiste a creer, au niveau du serveur, un enregistrement d'autorisation autorisant le terminal de reseau a imprimer au moyen de l'imprimante; a demander, au niveau du terminal de reseau et par le biais d'une demande d'impression, l'impression du document au moyen de l'imprimante; a verifier, grace a l'enregistrement d'autorisation, que le terminal de reseau est autorise a imprimer au moyen de l'imprimante; et, apres verification concluante, a envoyer le document a l'imprimante pour impression.

#### Legal Status (Type, Date, Text)

Publication 20001130 A1 With international search report.  
Examination 20010222 Request for preliminary examination prior to end of  
19th month from priority date

?

File 347:JAPIO Nov 1976-2003/Dec(Updated 040402)

(c) 2004 JPO & JAPIO

File 350:Derwent WPIX 1963-2004/UD,UM &UP=200427

(c) 2004 Thomson Derwent

Set	Items	Description
S1	332779	PRINTER? ?
S2	70943	(PRINTING OR PRINT) (1W) (DEVICE? ? OR APPARAT? OR APP?? ? OR EQUIPMENT? OR APPLIANCE? OR SYSTEM? ? OR MACHINE???? ? OR COMPONENT? OR MODULE? ? OR INSTRUMENT? OR MECHANISM? OR UNIT? ? OR ASSEMBL??? ?)
S3	10210	SECRET
S4	254	S3(2N) (IDENTIFIER? ? OR TAG? ? OR LABEL??? ? OR LABEL?? ? OR ID OR IDENTIFICATION? OR DESIGNATION? OR DESIGNAT?R? ? OR - INDICANT? ? OR INDICAT?R? ?)
S5	1667	S3(2N) (INTEGER? ? OR NUMBER? ? OR NUMERAL? ? OR NUMERIC?? ? OR ALPHANUMERIC? OR SYMBOL? ? OR INDICIA? ? OR CODE OR CODES OR CODING? ?)
S6	253	S3(2N) (SUBCOD???? ? OR MICROCOD???? ? OR VALUE OR VALUES OR SEQUENCE? OR STRING? ? OR SUBSTRING? OR DIGIT? ? OR CHARACTER? ?)
S7	5537	(PUBLIC OR ASYMMETRIC OR CONVENTIONAL OR SYMMETRIC OR PRIVATE OR SECRET) (1W) (KEY? ? OR CIPHER? OR CYPHER?)
S8	2356	(TWO OR PAIR??? ? OR DUAL) (1W) KEY? ?
S9	8313	(SERIAL OR MODEL OR EQUIPMENT OR APPLIANCE OR MACHINE) (1W) - (NUMBER? ? OR IDENTIFIER? ? OR ID OR IDS OR IDENTIFICATION?)
S10	260921	SERVER? OR HOST? ? OR HOSTING OR MAINFRAME? OR MAIN()FRAME? ? OR RAS
S11	5628	S10(5N) (AUTHENTICAT? OR VERIFIC? OR VERIFIE? ? OR VERIFY? - OR VALIDAT? OR CERTIFIC? OR CERTIFY? OR CERTIFIE? ?)
S12	190	S1:S2 AND S4:S8
S13	499	S1:S2 AND S9
S14	0	S12 AND S13
S15	4	S12 AND S11
S16	0	S13 AND S11
S17	4	IDPAT S15 (sorted in duplicate/non-duplicate order)
S18	4	IDPAT S15 (primary/non-duplicate records only)
S19	3594	MC='T01-C05A1'
S20	8696	MC='T04-G10E'
S21	40	S19:S20 AND S11
S22	9120	MC='W01-A05B':MC='W01-A05B1'
S23	20511	MC='W01-A05':MC='W01-A05X'
S24	10	S21 AND S22:S23
S25	9	S24 NOT S18
S26	9	IDPAT (sorted in duplicate/non-duplicate order)
S27	9	IDPAT (primary/non-duplicate records only)

18/9/1 (Item 1 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014260532 \*\*Image available\*\*

WPI Acc No: 2002-081230/200211

XRPX Acc No: N02-060398

Public key cryptography for encrypting print data and status messages between peripheral devices and computers, involves use of public and private keys to effect the decoding and validating operations

Patent Assignee: ANONYMOUS (ANON )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
RD 443022	A	20010310	RD 2001443022	A	20010220	200211 B

Priority Applications (No Type Date): RD 2001443022 A 20010220

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
RD 443022	A	2		G06F-000/00	

Abstract (Basic): RD 443022 A

NOVELTY - Host sends **public key** (PUB1) to **printer** which inturn sends **public key** (PUB2) back to host. On receiving the key (PUB2), host sends print data stream encrypted with key (PUB2) along with its digital signature entered using **private key** (PRIV1). **Printer** validates the digital signature using key (PUB1) and sends encrypted status message along with its digital signature, for decoding and validation by host.

DETAILED DESCRIPTION - Encryption of data between the host and **printer** is effected using a set of public and **private keys** which enable encryption of print data stream or the return status message. In another variation, in order to clearsign data exchange between **printer** and host, the actual messages are not encrypted but encrypted digital signature is added to the message. If a network device does not have adequate storage space for storing received **public keys**, the **public key** is added to header of print data stream each time data is sent to the device. Once the print data is printed and return status message is sent, the host's **public key** is deleted from the **printer**'s memory.

USE - For encrypting print data and status messages between peripheral devices and computers.

ADVANTAGE - Due to validation of sender, only authorized PC and authorized application programs are allowed. Sending device is provided with greater control of which **public keys** are used by **printer** for each data stream.

DESCRIPTION OF DRAWING(S) - The figure explains **public key** encryption procedure in **printer**.

pp; 2 DwgNo 1/2

Title Terms: PUBLIC; KEY; PRINT; DATA; STATUS; MESSAGE; PERIPHERAL; DEVICE; COMPUTER; PUBLIC; PRIVATE; KEY; EFFECT; DECODE; VALID; OPERATE

Derwent Class: T01; W01

International Patent Class (Main): G06F-000/00

File Segment: EPI

Manual Codes (EPI/S-X): T01-D01; W01-A05A

18/9/2 (Item 2 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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013596184 \*\*Image available\*\*

WPI Acc No: 2001-080391/200109

Related WPI Acc No: 2001-032072; 2001-032073; 2001-041078; 2001-049870; 2001-049889; 2001-061375; 2001-061376; 2001-061377; 2001-061378; 2001-061379; 2001-061380; 2001-061383; 2001-061384; 2001-061385; 2001-061386; 2001-070855; 2001-070886; 2001-070887; 2001-070889; 2001-080332; 2001-080380; 2001-091017; 2001-091018; 2001-091019; 2001-091020; 2001-102299; 2001-102300; 2001-102301; 2001-102302; 2001-146741; 2001-146742; 2001-146761; 2001-202518; 2001-244051; 2001-244052; 2001-244069; 2001-244070; 2001-257289; 2001-257290; 2001-257291; 2001-257292; 2001-257293; 2001-257336; 2001-257337; 2001-257338; 2001-257339; 2001-257341; 2001-257342; 2001-257343; 2001-257344; 2001-257345; 2001-265579; 2001-290116; 2001-328123; 2001-328124; 2001-335483; 2001-335752; 2001-354478; 2001-354825; 2001-355202; 2001-367045; 2001-374344; 2001-380760; 2001-381052; 2001-389385; 2001-389410; 2001-389418; 2001-397607; 2001-417832; 2001-425321; 2001-425322; 2001-425329; 2001-425338; 2001-425352; 2001-432690; 2001-464464; 2001-464465; 2001-464466; 2001-464473; 2001-464474; 2001-521241; 2001-521256; 2001-522897; 2001-541233; 2001-564790; 2001-564791; 2001-564792; 2001-564793; 2001-580761;

2001-580897; 2001-616166; 2001-625734; 2001-625756; 2002-074883;  
2002-074884; 2002-074885; 2002-074886; 2002-074887; 2002-074888;  
2002-147314; 2002-147316; 2002-226131; 2002-315396; 2002-351585;  
2002-382643; 2002-382644; 2002-425623; 2002-636105; 2002-665882;  
2004-096457

XRPX Acc No: N01-061265

Network printer registration protocol authenticates printer by comparing secret identifiers of printer and server, which are transmitted between printer and server over network

Patent Assignee: SILVERBROOK K (SILV-I); SILVERBROOK RES PTY LTD (SILV-N)

Inventor: LAPSTUN P; SILVERBROOK K

Number of Countries: 094 Number of Patents: 008

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
WO 200072499	A1	20001130	WO 2000AU540	A	20000524	200109	B
AU 200047279	A	20001212	AU 200047279	A	20000524	200115	
BR 200010860	A	20020702	BR 200010860	A	20000524	200252	
			WO 2000AU540	A	20000524		
EP 1222768	A1	20020717	EP 2000929056	A	20000524	200254	
			WO 2000AU540	A	20000524		
CN 1359573	A	20020717	CN 2000809804	A	20000524	200268	
JP 2003500713	W	20030107	JP 2000619850	A	20000524	200314	
			WO 2000AU540	A	20000524		
AU 761466	B	20030605	AU 200047279	A	20000524	200341	
MX 2001012133	A1	20030701	WO 2000AU540	A	20000524	200420	
			MX 200112133	A	20011126		

Priority Applications (No Type Date): AU 991313 A 19990630; AU 99559 A 19990525

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes	
WO 200072499	A1	E	92	H04L-009/00		
Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW						
Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TZ UG ZW						
AU 200047279 A Based on patent WO 200072499						
BR 200010860 A H04L-009/00 Based on patent WO 200072499						
EP 1222768 A1 E H04L-009/00 Based on patent WO 200072499						
Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI						
CN 1359573 A H04L-009/00						
JP 2003500713 W 150 G06F-003/12 Based on patent WO 200072499						
AU 761466 B H04L-009/00 Previous Publ. patent AU 200047279						
Based on patent WO 200072499						
MX 2001012133 A1 H04L-012/24 Based on patent WO 200072499						

Abstract (Basic): WO 200072499 A1

NOVELTY - A secret unique identifier is stored in the printer and in database of registration server before the printer is connected to the network. When printer is connected to the network, the printer is authenticated by comparing the secret unique identifiers of printer and server, which are transmitted between printer and server over the network.

DETAILED DESCRIPTION - The secret unique identifier is stored in printer and server with public unique identifier. The secret unique identifier along with public unique identifier and public key of printer are transmitted to the registration server to

**authenticate printer** connected to the network. An INDEPENDENT CLAIM is also included for network registration signal.

USE - For registering a **printer** such as high speed color **printer** on network.

ADVANTAGE - Periodicals from subscriber or authorized sources is only delivered unlike the fax or e-mail circuit. As signature recorded on netpage are automatically verified, e-commerce transactions are authorized reliably.

DESCRIPTION OF DRAWING(S) - The figure shows the schematic view of **printer** registration protocol.

pp; 92 DwgNo 50/55

Title Terms: NETWORK; PRINT; REGISTER; PROTOCOL; PRINT; COMPARE; SECRET; IDENTIFY; PRINT; SERVE; TRANSMIT; PRINT; SERVE; NETWORK

Derwent Class: P75; T01; T04; W01

International Patent Class (Main): G06F-003/12; H04L-009/00; H04L-012/24

International Patent Class (Additional): B41J-029/38; H04L-009/32

File Segment: EPI; EngPI

Manual Codes (EPI/S-X): T01-C05A1; T01-D01; T01-H07P; T04-G10E; W01-A05B; W01-A06B5A; W01-A06E1; W01-A06F

**18/9/3 (Item 3 from file: 350)**

DIALOG(R)File 350:Derwent WPIX

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013565682 \*\*Image available\*\*

WPI Acc No: 2001-049889/200106

Related WPI Acc No: 2001-032072; 2001-032073; 2001-041078; 2001-049870; 2001-061375; 2001-061376; 2001-061377; 2001-061378; 2001-061379; 2001-061380; 2001-061383; 2001-061384; 2001-061385; 2001-061386; 2001-070855; 2001-070886; 2001-070887; 2001-070889; 2001-080332; 2001-080380; 2001-080391; 2001-091017; 2001-091018; 2001-091019; 2001-091020; 2001-102299; 2001-102300; 2001-102301; 2001-102302; 2001-146741; 2001-146742; 2001-146761; 2001-202518; 2001-244051; 2001-244052; 2001-244069; 2001-244070; 2001-257289; 2001-257290; 2001-257291; 2001-257292; 2001-257293; 2001-257336; 2001-257337; 2001-257338; 2001-257339; 2001-257341; 2001-257342; 2001-257343; 2001-257344; 2001-257345; 2001-265579; 2001-290116; 2001-328123; 2001-328124; 2001-335483; 2001-335752; 2001-354478; 2001-354825; 2001-355202; 2001-367045; 2001-374344; 2001-380760; 2001-381052; 2001-389385; 2001-389410; 2001-389418; 2001-397607; 2001-417832; 2001-425321; 2001-425322; 2001-425329; 2001-425338; 2001-425352; 2001-432690; 2001-464464; 2001-464465; 2001-464466; 2001-464473; 2001-464474; 2001-521241; 2001-521256; 2001-522897; 2001-541233; 2001-564790; 2001-564791; 2001-564792; 2001-564793; 2001-580761; 2001-580897; 2001-616166; 2001-625734; 2001-625756; 2002-074883; 2002-074884; 2002-074885; 2002-074886; 2002-074887; 2002-074888; 2002-147314; 2002-147316; 2002-226131; 2002-315396; 2002-351585; 2002-382643; 2002-382644; 2002-425623; 2002-636105; 2002-665882; 2004-096457

XRPX Acc No: N01-038240

Interactive device registration protocol allows storing secret key and public unique identifier in device and registration server database, which are used for authenticating device on installation

Patent Assignee: SILVERBROOK RES PTY LTD (SILV-N); SILVERBROOK K (SILV-I)

Inventor: LAPSTUN P; SILVERBROOK K

Number of Countries: 093 Number of Patents: 010

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200072503	A1	20001130	WO 2000AU543	A	20000524	200106 B
AU 200047282	A	20001212	AU 200047282	A	20000524	200115

BR 200010839	A	20020604	BR 200010839	A	20000524	200246
			WO 2000AU543	A	20000524	
KR 2002012232	A	20020215	KR 2001714915	A	20011122	200257
KR 2002014802	A	20020225	KR 2001714878	A	20011121	200258
KR 2002016630	A	20020304	KR 2001715016	A	20011123	200258
CN 1358377	A	20020710	CN 2000809473	A	20000524	200278
JP 2003500921	W	20030107	JP 2000619852	A	20000524	200314
			WO 2000AU543	A	20000524	
KR 2003004351	A	20030114	WO 2000AU1445	A	20001127	200334
			KR 2002710786	A	20020819	
MX 2001012123	A1	20030701	WO 2000AU543	A	20000524	200420
			MX 200112123	A	20011126	

Priority Applications (No Type Date): AU 20005829 A 20000224; AU 99559 A 19990525; AU 991313 A 19990630

#### Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
WO 200072503	A1	E 94	H04L-009/30	Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TZ UG ZW
AU 200047282	A			Based on patent WO 200072503
BR 200010839	A		H04L-009/30	Based on patent WO 200072503
KR 2002012232	A		B42C-019/02	
KR 2002014802	A		B65H-029/34	
KR 2002016630	A		H04L-009/30	
CN 1358377	A		H04L-009/30	
JP 2003500921	W	147	H04L-009/32	Based on patent WO 200072503
KR 2003004351	A		G06F-017/60	
MX 2001012123	A1		H04L-009/30	Based on patent WO 200072503

#### Abstract (Basic): WO 200072503 A1

**NOVELTY** - **Secret key** and public unique identifier are installed in non-volatile memory in an interactive device and in a registration server database (74) before the device is connected to a network. The **server** (11) **authenticates** the device on installation, by verifying the device's encrypted challenge message using the **secret key**. The device is registered in the **server**'s database, when the **authentication** succeeds.

**DETAILED DESCRIPTION** - The authentication step involves transmitting a registration request with the unique public identifier from the device to the server. In response, the server generates a challenge message which is transmitted to the device. The device encrypts the challenge using the **secret key** and the encrypted challenge is transmitted to the server where the encrypted challenge is decrypted using the **secret key**. The **server authenticates** the device by comparing the decrypted challenge with the challenge.

**USE** - For registering an interactive device like **printers**, with registration server in network.

**ADVANTAGE** - Allows large number of distributed users to interact with networked information via printed matter and optical sensors, thereby obtaining interactive printed matter on demand via high speed networked color **printer**.

**DESCRIPTION OF DRAWING(S)** - The figure shows the schematic view of interactive device registration protocol.

Server (11)  
Database (74)

pp; 94 DwgNo 54/55  
Title Terms: INTERACT; DEVICE; REGISTER; PROTOCOL; ALLOW; STORAGE; SECRET;  
KEY; PUBLIC; UNIQUE; IDENTIFY; DEVICE; REGISTER; SERVE; DATABASE;  
AUTHENTICITY; DEVICE; INSTALLATION  
Derwent Class: P76; Q36; T01; T04; W01  
International Patent Class (Main): B42C-019/02; B65H-029/34; G06F-017/60;  
H04L-009/30; H04L-009/32  
International Patent Class (Additional): H04L-009/08; H04N-007/173;  
H04Q-007/38  
File Segment: EPI; EngPI  
Manual Codes (EPI/S-X): T01-D01; T01-H07C5S; T01-J05B4P; T04-G10C; W01-A05A  
; W01-A06F

18/9/4 (Item 4 from file: 350)

DIALOG(R) File 350: Derwent WPIX  
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010363687 \*\*Image available\*\*

WPI Acc No: 1995-265000/199535

XRPX Acc No: N95-203883

Protection of electronically published materials using cryptographic protocol - involves receiving requests with unique user ID for documents and authenticating requests with copyright server directing document to user after uniquely encoding and compressing

Patent Assignee: AMERICAN TELEPHONE & TELEGRAPH CO (AMTT ); AT & T CORP (AMTT )

Inventor: CHOUDHURY A K; MAXEMCHUK N F; PAUL S; SCHULZRINNE H G; SANJOY P

Number of Countries: 007 Number of Patents: 007

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 665486	A2	19950802	EP 95300287	A	19950118	199535 B
CA 2137065	A	19950728	CA 2137065	A	19941130	199542
JP 7239828	A	19950912	JP 9530268	A	19950127	199545
EP 665486	A3	19950913	EP 95300287	A	19950118	199614
US 5509074	A	19960416	US 94187580	A	19940127	199621
CA 2137065	C	19990216	CA 2137065	A	19941130	199918
JP 3121738	B2	20010109	JP 9530268	A	19950127	200104

Priority Applications (No Type Date): US 94187580 A 19940127

Cited Patents: No-SR.Pub; 3.Jnl.Ref; EP 465016; US 5077795

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
EP 665486	A2	E	8 G06F-001/00	
			Designated States (Regional): DE FR GB IT	
CA 2137065	A		G06K-001/12	
JP 7239828	A	7	G06F-015/00	
EP 665486	A3		G06F-001/00	
US 5509074	A	8	H04L-009/02	
CA 2137065	C		G06K-001/12	
JP 3121738	B2	8	G06F-015/00	Previous Publ. patent JP 7239828

Abstract (Basic): EP 665486 A

The protection method involves receiving requests for documents from several users (117) having computers with displays (121) and printers (123). The computers are connected to a network (9), and the requests include unique user identification for each of the users. The requests are authenticated with a copyright server (7), which is used to direct a document server (3) to act upon proper request authentication.

In response to this direction the document server creates encrypted documents along with a unique identification for each authenticated

request and forwards the documents to the user through the network to corresp. agents of the authenticated request user. Each of the agents is selected from display agents and **printer** agents. The documents are encoded so that each document is uniquely encoded based on the unique identification, and are decrypted at the agent and so available for use when the **secret keys** are provided by the user.

ADVANTAGE - Fully protects electronically published documents, and discourages distribution of illegal copies in violation of copyright laws, so that copies can be traced back to original owner.

Dwg.2/3

Abstract (Equivalent): US 5509074 A

A method of protecting electronically published documents, which comprises the step of:

operating a computer system, including a copyright server and a document server connected thereto, and a network for electronic publication of documents stored in the document server, and including therein the steps of:

a.) receiving requests for documents from a plurality of users having computers with display devices or **printers**, said computers being connected by said network to said computer system, said requests including unique user identification for each of said plurality of users;

b.) authenticating said requests from said plurality of users with the copyright server;

c.) using said copyright server to direct the document **server** to act upon proper authentication of each request;

d.) in response to direction from said copyright server, using the document server to create encrypted documents from an encoded document along with a unique identification for each authenticated request and forwarding said documents to each authenticated request user through said network to corresponding agents located at each authenticated request user, each of said agents being selected from display agents and **printer** agents;

e.) encoding a requested document as an encoded document using the document server so that each encoded document created is uniquely encoded based upon said unique identification; and,

f.) decrypting said documents at each of said agents and making said documents available for use only in response to receiving correct **secret keys** provided by said authenticated request user to said agents.

(Dwg.4/4

Title Terms: PROTECT; ELECTRONIC; MATERIAL; CRYPTOGRAPHIC; PROTOCOL; RECEIVE; REQUEST; UNIQUE; USER; ID; DOCUMENT; AUTHENTICITY; REQUEST; SERVE; DIRECT; DOCUMENT; USER; AFTER; UNIQUE; ENCODE; COMPRESS

Derwent Class: P85; T01; W01

International Patent Class (Main): G06F-001/00; G06F-015/00; G06K-001/12; H04L-009/02

International Patent Class (Additional): G06F-009/06; G06F-012/14; G09C-001/00; H04H-001/02; H04H-001/08; H04K-001/00; H04L-009/06; H04L-009/14; H04L-009/32

File Segment: EPI; EngPI

Manual Codes (EPI/S-X): T01-D01; T01-H07C; W01-A05A; W01-A05B; W01-A06B5A

27/9/1 (Item 1 from file: 350)  
DIALOG(R) File 350:Derwent WPIX  
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015933688 \*\*Image available\*\*  
WPI Acc No: 2004-091529/200409  
XRPX Acc No: N04-073294

Mobile printer enabling method, involves sending authenticating request to server from mobile printer and receiving print data portions to be downloaded from server upon successful authentication  
Patent Assignee: LEBLANC T J (LEBL-I); MOYER A L (MOYE-I); WINESTEIN L (WINE-I); POLAROID CORP (INTP )  
Inventor: LEBLANC T J; MOYER A L; WINESTEIN L  
Number of Countries: 029 Number of Patents: 002  
Patent Family:  
Patent No Kind Date Applcat No Kind Date Week  
WO 200406086 A2 20040115 WO 2003US15558 A 20030515 200409 B  
US 20040010567 A1 20040115 US 2002191606 A 20020709 200416

Priority Applications (No Type Date): US 2002191606 A 20020709

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 200406086	A2	E	69	G06F-003/12	
Designated States (National): CA JP					
Designated States (Regional): AT BE BG CH CY CZ DE DK EE ES FI FR GB GR					
HU IE IT LU MC NL PT RO SE SI SK TR					
US 20040010567	A1	G06F-015/16			

Abstract (Basic): WO 200406086 A2

NOVELTY - The method involves establishing an interprocess communication having a network address to identify a **server** (10). An **authenticating** request is sent to the **server** from a mobile printer (30). The print data portions to be downloaded are received from the **server** upon successful **authentication**. The **server** is notified after print completion to terminate connection when the print session ends or due to the occurrence of errors.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(a) a printer  
(b) a computer program product for enabling a mobile printer to download data items from a server.

USE - Used for enabling a mobile printer to download data items from a server.

ADVANTAGE - The server receives the characteristics of the mobile printer and compares it with the characteristics stored in its database during the authentication process. The printer characteristic enables the preparing of documents to be printed at a specific mobile printer and processing of documents to achieve optimum quality prints.

DESCRIPTION OF DRAWING(S) - The drawing shows a graphical representation of a printer-server system.

Sever (10)  
Network (20)  
Remote printer (30)  
pp; 69 DwgNo 1/12

Title Terms: MOBILE; PRINT; ENABLE; METHOD; SEND; AUTHENTICITY; REQUEST; SERVE; MOBILE; PRINT; RECEIVE; PRINT; DATA; PORTION; SERVE; SUCCESS; AUTHENTICITY

Derwent Class: T01; T04; W01

International Patent Class (Main): G06F-003/12; G06F-015/16

File Segment: EPI

Manual Codes (EPI/S-X): T01-C05A1 ; T01-N01D; T01-N02B1; T04-G10C;

W01-A05B

27/9/2 (Item 2 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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015916307 \*\*Image available\*\*  
WPI Acc No: 2004-074147/200408  
XRPX Acc No: N04-059812

Information processor for use with printer, writes job designation information obtained from printer, in detachable storage medium  
Patent Assignee: CANON KK (CANO )

Inventor: SHIGEEDA N

Number of Countries: 032 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1380935	A2	20040114	EP 2003254413	A	20030711	200408 B
JP 2004094920	A	20040325	JP 2003176032	A	20030620	200422

Priority Applications (No Type Date): JP 2003176032 A 20030620; JP 2002203578 A 20020712

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 1380935	A2	E	25	G06F-003/12	
Designated States (Regional): AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR					
JP 2004094920	A		28	G06F-003/12	

Abstract (Basic): EP 1380935 A2

NOVELTY - An issue unit issues print job, when user authentication is successful. The job designation information is obtained from a printer, in response to the issued print job. The obtained information is written in a detachable storage medium.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (1) printer;
- (2) printing system;
- (3) information processor control method;
- (4) printer control method;
- (5) printing method;
- (6) program for controlling information processor;
- (7) printing program;
- (8) program for controlling printer;
- (9) computer-readable storage medium storing program for controlling printer;
- (10) computer-readable storage medium storing program for controlling information processor; and
- (11) computer-readable storage medium storing printing program.

USE - Information processor e.g. personal computer (PC) for use with printer (claimed).

ADVANTAGE - The permission to use the printer is efficiently and easily controlled, by writing job designation information in the detachable storage medium and controlling user authentication using detachable storage medium.

DESCRIPTION OF DRAWING(S) - The figure shows a schematic view of the printing system.

user PC (1-1)  
printer (1-2)  
spooling area (1-3)  
authentication server (1-4)

printing engine (1-12)  
network (1-13)  
pp; 25 DwgNo 1/6

Title Terms: INFORMATION; PROCESSOR; PRINT; WRITING; JOB; DESIGNATED;  
INFORMATION; OBTAIN; PRINT; DETACH; STORAGE; MEDIUM

Derwent Class: P75; T01; T04; T05; W01

International Patent Class (Main): G06F-003/12

International Patent Class (Additional): B41J-029/38

File Segment: EPI; EngPI

Manual Codes (EPI/S-X): T01-C05A1 ; T01-H01B3A; T01-N01D; T01-N02B1B;  
T01-S03; T04-G10E ; T04-K02; T05-H02C5C; W01-A05B

27/9/3 (Item 3 from file: 350)

DIALOG(R)File 350:Derwent WPIX  
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015844782 \*\*Image available\*\*

WPI Acc No: 2004-002609/200401

XRPX Acc No: N04-002331

Data communication unit for image forming device remote management system, authorizes access attempt to management server , when received and stored authentication information are same

Patent Assignee: RICOH KK (RICO )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2003283738	A	20031003	JP 200280522	A	20020322	200401 B

Priority Applications (No Type Date): JP 200280522 A 20020322

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 2003283738	A	14		H04N-001/00	

Abstract (Basic): JP 2003283738 A

NOVELTY - A management center (13) performs an access attempt to a data communication unit (12). A memory unit stores connection authentication information. The access attempt is authorized, when the received connection authentication information is same as the stored information. The circuit connection to the center is disconnected, when the unauthorized access attempt count reaches a predetermined threshold value.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for image forming device remote management system.

USE - For remote management of image forming device (claimed) such as copier.

ADVANTAGE - Since the received information is compared with stored information for authenticating the access, the access to the image forming device is performed efficiently.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of the data communication unit. (Drawing includes non- English language text).

reproduction apparatus group (11)  
data communication unit (12)  
management center (13)  
pp; 14 DwgNo 1/14

Title Terms: DATA; COMMUNICATE; UNIT; IMAGE; FORMING; DEVICE; REMOTE; MANAGEMENT; SYSTEM; AUTHORISE; ACCESS; ATTEMPT; MANAGEMENT; SERVE; RECEIVE; STORAGE; AUTHENTICITY; INFORMATION

Derwent Class: P84; S06; T01; W01

International Patent Class (Main): H04N-001/00

International Patent Class (Additional): G03G-021/00; G03G-021/04;  
G06F-003/12; G06F-013/00  
File Segment: EPI; EngPI  
Manual Codes (EPI/S-X): S06-A14E; S06-A16; T01-C05A1 ; T01-J12C; T01-N02B1  
; W01-A05B

27/9/4 (Item 4 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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015534702 \*\*Image available\*\*  
WPI Acc No: 2003-596852/200356  
XRXPX Acc No: N03-475630

Secured reference-based printing method for document repository system,  
involves verifying server and delegation credentials in document  
repository and providing document corresponding to specified URL to print  
server

Patent Assignee: XEROX CORP (XERO )  
Inventor: JOHNSON S R; MANCHALA D W; ORLOV L; WENN J C  
Number of Countries: 002 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20030079134	A1	20030424	US 20011449	A	20011023	200356 B
JP 2003216397	A	20030731	JP 2002304092	A	20021018	200359

Priority Applications (No Type Date): US 20011449 A 20011023

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20030079134	A1	6		H04L-009/00	
JP 2003216397	A	7		G06F-003/12	

Abstract (Basic): US 20030079134 A1

NOVELTY - The URL of document (102), user credential, delegation credential (106) are transmitted from client (100) to print server (110) for verification . The server credentials along with delegation credential and document URL is transmitted to document repository (120) after verification . The server and delegation credentials are verified by repository and document corresponding to URL is provided to server for printing.

USE - For client-server document repository system in which a document such as Microsoft Word document, Postscript files, Adobe PDF files is searched and provided to print server, printer, facsimile machine, remote printer, copier, e-mail server by using wireless devices such as cell phones, personal digital assistants (PDA), hand held personal computer (PC).

ADVANTAGE - The desired document can be printed without retrieving and storing the document in the client device, thereby improving the operation efficiency.

DESCRIPTION OF DRAWING(S) - The figure shows a block diagram of the client-server document repository system.

client (100)  
URL of document (102)  
delegation credential (106)  
print server (110)  
document repository (120)  
pp; 6 DwgNo 1/1

Title Terms: SECURE; REFERENCE; BASED; PRINT; METHOD; DOCUMENT; REPOSITORY; SYSTEM; VERIFICATION; SERVE; DOCUMENT; REPOSITORY; DOCUMENT; CORRESPOND; SPECIFIED; PRINT; SERVE

Derwent Class: T01; T04; W01

International Patent Class (Main): G06F-003/12; H04L-009/00  
International Patent Class (Additional): G06F-012/00; G06F-012/14;  
G06F-015/00; G09C-001/00  
File Segment: EPI  
Manual Codes (EPI/S-X): T01-C05A1 ; T01-N01A; T01-N02A2C; T01-N02B1;  
T04-G10E ; W01-A05B

27/9/5 (Item 5 from file: 350)  
DIALOG(R) File 350:Derwent WPIX  
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015389943 \*\*Image available\*\*  
WPI Acc No: 2003-450887/200343  
XRPX Acc No: N03-359640

**Printing system for addressing envelopes includes connection via Internet enabling application of secure franking mark to envelope by second printer**

Patent Assignee: NEOPOST IND (NEOP-N); NEOPOST IND SA (NEOP-N)

Inventor: CHARROPIN P; CHARROPIN P

Number of Countries: 031 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1300808	A1	20030409	EP 2002292425	A	20021003	200343 B
US 20030069862	A1	20030410	US 2002265273	A	20021007	200343
FR 2830650	A1	20030411	FR 200112819	A	20011005	200343

Priority Applications (No Type Date): FR 200112819 A 20011005

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 1300808	A1	F	16	G07B-017/00	

Designated States (Regional): AL AT BE BG CH CY CZ DE DK EE ES FI FR GB  
GR IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR  
US 20030069862 A1 G06F-017/00  
FR 2830650 A1 G07F-017/00

Abstract (Basic): EP 1300808 A1

**NOVELTY** - The system for preparing letters for posting includes use of a first standard printer, connected to a computer terminal, for printing the address, postal co-ordinate data and the required service on the outside of an envelope. This computer is connected to the Internet, and thus also establishes connection with a remote **server**, enabling the **authentication** of a franking stamp to be applied to the envelope. This is applied by a second secure printer, after the initial information has been applied to the envelope.

**DETAILED DESCRIPTION** - The system for preparing articles to be posted includes use of a postal stamp marking, and further marking representing the service associated with the article to be posted, as requested by the user. The system includes a first standard printer (14) connected to a computer user terminal. This computer user terminal is itself connected, via the Internet (10), to a computer server (16) hosting the website of an independent organization for the preparation of articles for posting. This enables the printing of both postal co-ordinates of the destination, and the marking of the service required. A second secure printer comprises a franking machine (20) which then applies the postal franking mark.

**USE** - Preparing letters for posting.

**ADVANTAGE** - Provides secure franking of letters for posting.

**DESCRIPTION OF DRAWING(S)** - The diagram shows the two printers used to apply destination data, and the franking mark.

Internet (10)

standard printer (14)  
server (16)  
franking machine (20)  
pp; 16 DwgNo 1/4  
Title Terms: PRINT; SYSTEM; ADDRESS; ENVELOPE; CONNECT; ENABLE; APPLY;  
SECURE; FRANKING; MARK; ENVELOPE; SECOND; PRINT  
Derwent Class: P75; T01; T05; W01  
International Patent Class (Main): G06F-017/00; G07B-017/00; G07F-017/00  
International Patent Class (Additional): B41J-003/00; B41J-005/00;  
G06F-003/12; H04L-012/28  
File Segment: EPI; EngPI  
Manual Codes (EPI/S-X): T01-C05A1 ; T01-N01A2E; T01-N01D; T01-N02A3C;  
T01-N02B1; T05-C05; T05-K02; W01-A05B

27/9/7 (Item 7 from file: 350)  
DIALOG(R) File 350:Derwent WPIX  
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014732476 \*\*Image available\*\*  
WPI Acc No: 2002-553180/200259

XRPX Acc No: N02-438228

Network printer uses physical authentication ID information of user  
stored in server to verify utilization authority

Patent Assignee: RICOH KK (RICO )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2002171252	A	20020614	JP 2000369359	A	20001205	200259 B

Priority Applications (No Type Date): JP 2000369359 A 20001205

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 2002171252	A		4	H04L-009/32	

Abstract (Basic): JP 2002171252 A

NOVELTY - The password server (3) has a table in which combination of user ID including user name and password, and information about physical authentication IDs such as magnetic card are stored. User authenticity is verified using physical authentication ID information, for using the network printer (2).

USE - Network printer.

ADVANTAGE - Enables handling confidential document without requiring special input device.

DESCRIPTION OF DRAWING(S) - The figure demonstrates the network environment.

Network printer (2)  
Password server (3)  
pp; 4 DwgNo 1/2

Title Terms: NETWORK; PRINT; PHYSICAL; AUTHENTICITY; ID; INFORMATION; USER;  
STORAGE; SERVE; VERIFICATION; UTILISE; AUTHORISE

Derwent Class: P75; T01; W01

International Patent Class (Main): H04L-009/32

International Patent Class (Additional): B41J-029/00; B41J-029/38;  
G06F-001/00; G06F-003/12; G06F-015/00

File Segment: EPI; EngPI

Manual Codes (EPI/S-X): T01-C05A1 ; T01-N02B1B; W01-A05B

File 348:EUROPEAN PATENT 1978-2004/Apr W02  
(c) 2004 European Patent Office

File 349:PCT FULLTEXT 1979-2002/UB=20040415,UT=20040408  
(c) 2004 WIPO/Univentio

Set	Items	Description
S1	68991	PRINTER? ?
S2	27991	(PRINTING OR PRINT) (1W) (DEVICE? ? OR APPARAT? OR APP?? ? OR EQUIPMENT? OR APPLIANCE? OR SYSTEM? ? OR MACHINE???? ? OR COMPONENT? OR MODULE? ? OR INSTRUMENT? OR MECHANISM? OR UNIT? ? OR ASSEMBL??? ?)
S3	9419	SECRET
S4	644	S3(2N) (IDENTIFIER? ? OR TAG? ? OR LABEL??? ? OR LABELL??? OR ID OR IDENTIFICATION? OR DESIGNATION? OR DESIGNAT?R? ? OR INDICANT? ? OR INDICAT?R? ?)
S5	2328	S3(2N) (INTEGER? ? OR NUMBER? ? OR NUMERAL? ? OR NUMERIC?? ? OR ALPHANUMERIC? OR SYMBOL? ? OR INDICIA? ? OR CODE OR CODES OR CODING? ?)
S6	798	S3(2N) (SUBCOD???? ? OR MICROCOD???? ? OR VALUE OR VALUES OR SEQUENCE? OR STRING? ? OR SUBSTRING? OR DIGIT? ? OR CHARACTE-R? ?)
S7	9516	(PUBLIC OR ASYMMETRIC OR CONVENTIONAL OR SYMMETRIC OR PRIV-ATE OR SECRET) (1W) (KEY? ? OR CIPHER? OR CYPHER?)
S8	6123	(TWO OR PAIR??? ? OR DUAL) (1W) KEY? ?
S9	38726	(SERIAL OR MODEL OR EQUIPMENT OR APPLIANCE OR MACHINE) (1W)- (NUMBER? ? OR IDENTIFIER? ? OR ID OR IDS OR IDENTIFICATION?)
S10	181771	SERVER? OR HOST? ? OR HOSTING OR MAINFRAME? OR MAIN() FRAME? ? OR RAS
S11	8333	S10(5N) (AUTHENTICAT? OR VERIFIC? OR VERIFIIE? ? OR VERIFY? - OR VALIDAT? OR CERTIFIC? OR CERTIFY? OR CERTIFIE? ?)
S12	249	S1:S2(25N)S4:S8
S13	642	S1:S2(25N)S9
S14	7	S12(25N)S13
S15	81	S12(25N)S11
S16	1	S13(25N)S11
S17	4	S15/TI,AB,CM
S18	23444	IC='G06K'
S19	6728	IC='G06F-012'
S20	25044	IC='H04L-012'
S21	6257	IC='H04L-009'
S22	1266	IC='G06F-003/12'
S23	1090	IC='B41J-029'
S24	61	S15 AND S18:S23
S25	9	S15 AND S19:S23
S26	18	S14 OR S16:S17 OR S25
S27	18	IDPAT (sorted in duplicate/non-duplicate order)
S28	18	IDPAT (primary/non-duplicate records only)

28/5,K/1 (Item 1 from file: 348)  
DIALOG(R) File 348:EUROPEAN PATENTS  
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01417782

Remote printing of secure and/or authenticated documents  
Ferndrucken von sicheren und/oder authentifizierten Dokumenten  
Impression a distance de documents securises et/ou authentifies  
PATENT ASSIGNEE:

Trustcopy Pte Ltd, (3350201), c/o Kent Ridge Digital Labs, 21 Heng Mui Keng Terrace, Singapore 119631, (SG), (Applicant designated States: all)

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ZHU, Baoshi, Blk 35 Dover Road, 13-163 Singapore 130035, (SG)  
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LEGAL REPRESENTATIVE:

Tomlinson, Kerry John (36771), Frank B. Dehn & Co., European Patent

Attorneys, 179 Queen Victoria Street, London EC4V 4EL, (GB)  
PATENT (CC, No, Kind, Date): EP 1197828 A1 020417 (Basic)  
APPLICATION (CC, No, Date): EP 2001306086 010716;  
PRIORITY (CC, No, Date): SG 200005827 001011  
DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;  
LU; MC; NL; PT; SE; TR  
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI  
INTERNATIONAL PATENT CLASS: G06F-001/00; G06F-017/60; H04L-029/06

ABSTRACT EP 1197828 A1

A method for the remote printing of a document by use of a network, the method including receiving at a server the document as sent from a sender; the server forwarding the document to a recipient; the document being authenticated prior to being forwarded to the recipient; and the server receiving instructions from the sender regards printing controls and the server implementing those controls on the recipient. A hardware device to support the printing controls is also disclosed.

ABSTRACT WORD COUNT: 79

NOTE:

Figure number on first page: 5

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 020417 A1 Published application with search report  
Examination: 021009 A1 Date of request for examination: 20020805  
Examination: 021127 A1 Date of dispatch of the first examination  
report: 20021011

LANGUAGE (Publication, Procedural, Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200216	2407
SPEC A	(English)	200216	15119
Total word count - document A			17526
Total word count - document B			0
Total word count - documents A + B			17526

... CLAIMS 18. A method as claimed in claim 8, characterised in that the printer and the **server** system perform secure handshaking to **authenticate** each other, the **printer** and the server using one or more selected from the group consisting of a **public key** pair or the symmetry key of the **printer**, the server sending the encrypted document hash, an optical watermark, and printing instructions, to the **printer** and the printer receives the document through client software, decrypts the document, and verifies the...

28/5,K/2 (Item 2 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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01154280

VERIFIABLE ELECTRONIC JOURNAL FOR A POINT OF SALE DEVICE AND METHODS FOR  
USING THE SAME  
UBERPRUFBARES ELEKTRONISCHES LOGBUCH FUR EIN VERKAUFSSTELLENENDGERAT UND  
VERFAHREN ZU DESSEN VERWENDUNG  
JOURNAL ELECTRONIQUE VERIFIABLE POUR DISPOSITIF POINT DE VENTE ET METHODES  
D'UTILISATION

PATENT ASSIGNEE:

International Business Machines Corporation, (200128), New Orchard Road,  
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CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; NL; PT; SE)

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PATENT (CC, No, Kind, Date): EP 1118066 A1 010725 (Bas)  
EP 1118066 B1 031203  
WO 2000019387 000406  
APPLICATION (CC, No, Date): EP 99947623 990917; WO 99GB3105 990917  
PRIORITY (CC, No, Date): US 164215 980930  
DESIGNATED STATES (Pub A): AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE;  
IT; LI; LU; MC; NL; PT; SE; (Pub B): AT; BE; CH; CY; DE; DK; ES; FI; FR;  
GB; GR; IE; IT; LI; LU; NL; PT; SE  
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI  
INTERNATIONAL PATENT CLASS: G07G-001/12  
CITED PATENTS (EP B): WO 96/36948 A; GB 2297414 A; US 4484277 A; US 4564904

A

CITED PATENTS (WO A): GB 2297414 A ; WO 9636948 A ; US 4564904 A ; US  
4484277 A

ABSTRACT WORD COUNT: 6607

NOTE:

No A-document published by EPO

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 000531 A1 International application. (Art. 158(1))  
Application: 000531 A1 International application entering European  
phase  
Application: 010725 A1 Published application with search report  
Examination: 010725 A1 Date of request for examination: 20010425  
Examination: 021127 A1 Date of dispatch of the first examination  
report: 20021014  
Assignee: 030502 A1 Transfer of rights to new applicant:  
International Business Machines Corporation  
(200128) New Orchard Road Armonk, NY 10504 US  
(Applicant designated states: AT; BE; CH; LI;  
CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; NL;  
PT; SE)

Grant: 031203 B1 Granted patent

LANGUAGE (Publication, Procedural, Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200349	1138
CLAIMS B	(German)	200349	1027
CLAIMS B	(French)	200349	1430
SPEC B	(English)	200349	4821
Total word count - document A			0
Total word count - document B			8416
Total word count - documents A + B			8416

...SPECIFICATION where encryption is not used, the message digest itself is transmitted as the data signature **at block 115** and there is no public or shared key to transmit. A device identifier, such as a **serial number** of the generating device, may also be transferred.

At block 116, the receiving point of...

...for an embodiment of a point of sale device 118 according to the present invention. The closing operations taking place at the point of sale terminal in the illustrated embodiment of...

...an electronic journal memory or file which is closed so that no alterations may be **made which** cannot be detected using the authentication techniques described herein. In the embodiment illustrated in FIG. 5, **printer private key** 132, **printer public key** 134 and **printer serial number** 136 are all stored in **portions of** electronically programmable **read** only fiscal memory 130. At the end of a journal period, the **printer private key** 132 and message digest 124 are used by encryption algorithm 138 to generate a data...

...is stored in the data signature portion 54 of the electronic journal file 50. The **printer public key** 134 and **printer serial number** 136, respectively, are transferred and stored in portions 56 and 58 respectively of the electronic...

00985339

Updating domains in a postage evidencing system

Aktualisieren von Bereichen in einem System zum Nachweisen von Postgebühren

Mise a jour de domaines dans un systeme de mise en evidence du courrier

PATENT ASSIGNEE:

PITNEY BOWES INC., (244957), World Headquarter, One Elmcroft Road,  
Stamford, Connecticut 06926-0700, (US), (Applicant designated States:  
all)

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PATENT (CC, No, Kind, Date): EP 892369 A2 990120 (Basic)  
EP 892369 A3 000628

APPLICATION (CC, No, Date): EP 98109735 980528;

PRIORITY (CC, No, Date): US 864928 970529

DESIGNATED STATES: DE; FR; GB

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G07B-017/02

#### ABSTRACT EP 892369 A2

A postage evidencing system including a plurality of domains for partitioning a population of postage meters according to an operating characteristic, a data center, a postage meter in operative communication with the data center and a printer in operative communication with the postage meter. The postage meter is initialized to operate in a particular domain while the printer is capable of operating in each of the plurality of domains. To update or enable a domain in the printer, the postage meter transmits an indication of the particular domain to the data center. Then, the data center encrypts the indication and transmits the indication to the postage meter which in turn forwards the encrypted indication to the printer. The printer decrypts the encrypted indication and using the indication enables a respective domain in the printer corresponding to the particular domain of the postage meter. A method for updating domains in a postage evidencing system is also provided.

ABSTRACT WORD COUNT: 157

#### NOTE:

Figure number on first page: 1

#### LEGAL STATUS (Type, Pub Date, Kind, Text):

Search Report: 000628 A3 Separate publication of the search report  
Application: 990120 A2 Published application (A1with Search Report  
;A2without Search Report)

Examination: 010221 A2 Date of request for examination: 20001221

LANGUAGE (Publication, Procedural, Application): English; English; English

#### FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9903	574
SPEC A	(English)	9903	4730
Total word count - document A		5304	
Total word count - document B		0	
Total word count - documents A + B		5304	

...SPECIFICATION skilled in the art that keys have been synchronized between the meter 120 and the printer 130 without transmitting the keys themselves. Furthermore, the keys used are unique to that meter 120 and printer 130 combination only. That is, since the serial number

Nph)) of the printer 130 is unique to each printer 130 in the preferred embodiment so as to provide the greatest degree of security, no two keys Kph))x are the same. In summary, the meter 130 has the capability to make a key Kph))x which is specific to the particular printer 130 with which it is in communication. Therefore, the interchangeability of the meters 120 with...

28/5,K/5 (Item 5 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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00972225

Synchronization of cryptographic keys between two modules of a distributed system

Synchronisierung von Geheimubertragungsschlüsseln zwischen zwei Modulen in einem verteilten System

Synchronisation des cles cryptographiques entre deux modules d'un systeme distribue

PATENT ASSIGNEE:

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LEGAL REPRESENTATIVE:

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PATENT (CC, No, Kind, Date): EP 881600 A2 981202 (Basic)  
EP 881600 A3 000628

APPLICATION (CC, No, Date): EP 98109736 980528;

PRIORITY (CC, No, Date): US 864929 970529

DESIGNATED STATES: DE; ES; FR; GB; IT; NL

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G07B-017/00

ABSTRACT EP 881600 A2

The apparatus comprises: a first module including a universal key; a second module including a unique identifier and a unique key wherein the unique key is derived from the unique identifier and the universal key and incorporated into the second module during manufacture of the second module. The second module is in communication with the first module. The apparatus further comprises a controller for performing the following subsequent to manufacture of the first module and the second module: initiating a communication session between the first module and the second module; transmitting the unique identifier from the second module to the first module; and deriving the unique key in the first module using the unique identifier and the universal key. A method for synchronization of cryptographic keys between modules of a distributed system and a method of manufacturing a postage evidencing system are also provided.

ABSTRACT WORD COUNT: 145

NOTE:

Figure number on first page: 1

LEGAL STATUS (Type, Pub Date, Kind, Text):

Search Report: 000628 A3 Separate publication of the search report

Application: 981202 A2 Published application (A1with Search Report  
;A2without Search Report)

Examination: 010221 A2 Date of request for examination: 20001221

LANGUAGE (Publication, Procedural, Application): English; English; English  
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9849	904
SPEC A	(English)	9849	4819
Total word count - document A			5723
Total word count - document B			0
Total word count - documents A + B			5723

...SPECIFICATION skilled in the art that keys have been synchronized between the meter 120 and the **printer** 130 without transmitting the keys themselves. Furthermore, the keys used are unique to that meter 120 and **printer** 130 combination only. That is, since the **serial number** Nph)) of the **printer** 130 is unique to each **printer** 130 in the preferred embodiment so as to provide the greatest degree of security, no two **keys** Kph))x are the same. In summary, the meter 130 has the capability to make a key Kph))x which is specific to the particular **printer** 130 with which it is in communication. Therefore, the interchangeability of the meters 120 with...

?t28/5,k/7-12;t28/5/13

28/5,K/7 (Item 7 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00897828 \*\*Image available\*\*

**REMOTE PRINTING OF SECURE AND/OR AUTHENTICATED DOCUMENTS**

**IMPRESSION A DISTANCE DE DOCUMENTS SECURISES ET/OU AUTHENTIFIES**

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designated states except: US)

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Legal Representative:

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200232047 A1 20020418 (WO 0232047)

Application: WO 2001SG151 20010716 (PCT/WO SG0100151)

Priority Application: SG 20005827 20001011

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU  
CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR  
KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE  
SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR  
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: H04L-009/32

International Patent Class: G06F-003/12 ; G06F-013/00; H04N-001/44

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 18683

English Abstract

A method for the remote printing of a document by use of a network, the method including the steps of: (a) receiving at a server the document as sent from a sender; (b) the server forwarding the document to a

recipient; (c) the document being authenticated prior to being forwarded to the recipient; and (d) the server receiving instructions from the sender regards printing controls and the server implementing those controls on the recipient. A hardware device to support the printing controls is also disclosed.

#### French Abstract

Cette invention se rapporte à un procédé qui sert à imprimer à distance un document à l'aide d'un réseau et qui consiste à cet effet: (a) à recevoir au niveau d'un serveur le document envoyé par un expéditeur; (b) pour le serveur, à acheminer le document à un destinataire; (c) le document étant authentifié avant d'être acheminé au destinataire; et (d) pour le serveur, à recevoir des instructions en provenance de l'expéditeur au sujet des commandes d'impression et à exécuter ces commandes à l'intention du destinataire. Un dispositif matériel prenant en charge les commandes d'impression est également décrit.

#### Legal Status (Type, Date, Text)

Publication 20020418 A1 With international search report.

Examination 20020516 Request for preliminary examination prior to end of 19th month from priority date

Main International Patent Class: H04L-009/32

International Patent Class: G06F-003/12 ...

#### Fulltext Availability:

Detailed Description

Claims

#### Detailed Description

... processing unit, and a secure clock. The secure memory may be used to store a **private key**; the central processing unit may be used to prevent run-time attacks; and the secure clock can be used to keep time.

Preferably, the **printer** and the **server** use a **public key** pair or symmetry key of the **printer** to perform secure handshaking to **authenticate** each other.

The **server** may send an encrypted document hash and optical watermark, and printing instructions, to the **printer**...program, and to the run-time program.

When a user requests authority to print an **authenticated** copy, the **server** system communicates with the **printer** to complete the handshaking process via the client.

After successful **authentication** of the **printer** and the **server** system based on **public key** pairs, the **server** system sends the encrypted hash and optical watermark with time stamp, as well as printing instructions, to the **printer**. For the details on security handshaking protocols and encrypted data transmission, refer to Chapter 9...

...public world", by C. Kaufman, R. Perlman, and M. Speciner, PTR Prentice Hall, 1995.

The **printer** stores its **private key** in a secure memory. Its digital **certificate** is made known to the **server** system when the recipient is registered with the service center.

After successfully completing the security...

#### Claim

... keep time. 29) A method as claimed in claim 27, wherein the **printer** and the **server** system perform secure handshaking to **authenticate** each other, the **printer** and the **server** using one or more selected from the group consisting of a **public key** pair or the symmetry key of the **printer**. 30) A method as claimed in claim 27, wherein the **server** sends the encrypted document...

28/5,K/8 (Item 8 from file: 349)  
DIALOG(R) File 349:PCT FULLTEXT  
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00881364 \*\*Image available\*\*

**ASSURED PRINTING OF DOCUMENTS OF VALUE**  
**IMPRESSION SECURISEE DE DOCUMENTS PRECIEUX**

**Patent Applicant/Assignee:**

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**Inventor(s):**

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**Patent and Priority Information (Country, Number, Date):**

Patent: WO 200215516 A2-A3 20020221 (WO 0215516)

Application: WO 2001US25559 20010814 (PCT/WO US0125559)

Priority Application: US 2000641929 20000817

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU  
CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP  
KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD  
SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: H04L-029/06

Publication Language: English

Filing Language: English

**Fulltext Availability:**

Detailed Description

Claims

Fulltext Word Count: 7411

**English Abstract**

The transmission and reproduction of an original document transferred via a data network can be guaranteed when the printing mechanism (116) generates a unique serial number for the document being printed. The sender of the document is assured that the intended recipient received the document and was able to print it by receipt of the unique serial number and a request for an encryption key by which certain information in the document was encrypted.

**French Abstract**

La transmission et la reproduction d'un document original via un reseau de donnees peut etre garantie lorsque le mecanisme d'impression (116) genere un numero de serie unique pour le document imprime. L'expediteur du document a l'assurance que le destinataire prevu a bien recu le document et qu'il a pu l'imprimer grace a la reception d'un numero de serie unique et d'une demande de cle de chiffrage au moyen de laquelle certaines informations cles du document avaient ete cryptees.

**Legal Status (Type, Date, Text)**

Publication 20020221 A2 Without international search report and to be republished upon receipt of that report.

Examination 20020502 Request for preliminary examination prior to end of 19th month from priority date

Search Rpt 20020711 Late publication of international search report

Republication 20020711 A3 With international search report.

Republication 20020711 A3 Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

**Fulltext Availability:**

Detailed Description

Detailed Description

... second computers, the recipient's (i.e. second) computer 10 8 will request from the **printer** 11 6 an encryption key for public distribution (i.e. a **public** encryption **key**) in the format of an X.509 certificate, which might be embodied as a **serial number**, a **model number** or combination thereof obtained from the **printer** in step 204 in Figure 2. In Figure 2-2, when the **printer** returns an X.509 certificate and data as that of step 206, the user's computer installs the **public key** on a browser plug-in file, known to those skilled in the art.

Information about...

**28/5,K/9 (Item 9 from file: 349)**

DIALOG(R)File 349:PCT FULLTEXT

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00788838 \*\*Image available\*\*

**BUSINESS CARD AS ELECTRONIC MAIL AUTHORIZATION TOKEN**  
**CARTES PROFESSIONNELLES UTILISEES EN TANT QUE JETON D'AUTORISATION DE COURRIER ELECTRONIQUE**

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Patent Applicant/Inventor:

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200122357 A1 20010329 (WO 0122357)

Application: WO 2000AU1108 20000915 (PCT/WO AU0001108)

Priority Application: AU 992912 19990917

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE  
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: G06K-019/06

International Patent Class: H04L-009/32

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 33484

English Abstract

The present invention provides a method of enabling a first user to obtain, using a business card of a second user, authority to transmit electronic mail to the second user, the business card including coded data indicative of the identity of the business card and of at least one reference point of the business card, the method including the steps of: receiving, in a computer system, indicating data from a sensing device regarding the identity of the business card and a position of the sensing device relative to the business card, the sensing device, when placed in an operative position relative to the business card, sensing the indicating data using at least some of the coded data; identifying, in the computer system and from the indicating data a request to authorise

the transmission of electronic mail from the first to the second user; and recording, in the computer system, an authority allowing the first user to transmit electronic mail to the second user.

#### French Abstract

La presente invention se rapporte à un procédé visant à permettre à un premier utilisateur d'obtenir, au moyen d'une carte professionnelle d'un second utilisateur, l'autorisation de transmettre du courrier électronique au second utilisateur, ladite carte professionnelle comportant des données codées représentatives de l'identité de la carte professionnelle et d'au moins un point de référence de la carte professionnelle. Ledit procédé consiste à recevoir, dans un système informatique, des données représentatives en provenance d'un dispositif capteur qui concernent l'identité de la carte professionnelle et une position dudit dispositif capteur par rapport à la carte professionnelle, ledit dispositif capteur étant conçu pour capter, lorsqu'il est placé dans une position opérationnelle par rapport à la carte professionnelle, les données représentatives au moyen d'au moins certaines des données codées; à identifier, dans le système informatique et à partir des données représentatives, une demande d'autorisation de transmission du courrier électronique du premier vers le second utilisateur; et à enregistrer, dans le système informatique, une autorisation permettant au premier utilisateur d'émettre le courrier électronique à destination de second utilisateur.

#### Legal Status (Type, Date, Text)

Publication 20010329 A1 With international search report.

Examination 20010621 Request for preliminary examination prior to end of 19th month from priority date

International Patent Class: H04L-009/32

Fulltext Availability:

Detailed Description

#### Detailed Description

... cryptography is only used to create digital signatures and to securely exchange secret session keys. **Secret - key** cryptography is used for all other purposes.

In the following discussion, when reference is made to the secure transmission of information between a netpage **printer** and a server, what actually happens is that the **printer** obtains the **server's certificate**, **authenticates** it with reference to the certificate authority, uses the **public key**-exchange key in the certificate to exchange a **secret session key** with the server, and then uses the secret session key to encrypt the message data...

...unique identifiers at time of manufacture which are stored in read-only memory in the **printer** and in the netpage registration server database. The first ID 62 is public and uniquely...

...connects to the netpage network for the first time after installation, it creates a signature **public / private key** pair. It transmits the **secret ID** and the **public key** securely to the netpage registration server. The server compares the **secret ID** against the **printer's secret ID** recorded in its database, and accepts the registration if the IDs match. It then creates and signs a certificate containing the **printer's** public ID and **public signature key**, and stores the certificate in the registration database.

The netpage registration server acts as a certificate authority for netpage **printers**, since it has access to secret information allowing it to verify printer identity.

- 42 When...

...to the user's default printer or a specified printer.

Every document sent to a **printer** via a page server is addressed to a

particular user and is signed by the publisher using the publisher's private signature key . The page server verifies , via the registration database, that the publisher is authorized to deliver the publication to the specified user. The page server verifies the signature using the publisher's public key, obtained from the publisher's certificate stored...

28/5,K/10 (Item 10 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00769387 \*\*Image available\*\*

**DIGITAL CAMERA WITH INTERACTIVE PRINTER**  
**APPAREIL PHOTO NUMERIQUE EQUIPE D'UNE IMPRIMANTE INTERACTIVE**

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Legal Representative:

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200102905 A1 20010111 (WO 0102905)

Application: WO 2000AU772 20000630 (PCT/WO AU0000772)

Priority Application: AU 991313 19990630

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TT TZ UA UG US UZ VN YU ZA ZW  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE  
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: G03B-015/00

International Patent Class: G03B-017/00; G03B-019/02; G03B-027/00; G03B-029/00; G06F-003/12 ; G06T-001/00; H04N-005/222

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 34861

English Abstract

A camera for capturing an image and printing a first interface onto a first surface, in response to a user input, and for printing a second interface onto a second surface, in response to first indicating data received from a sensing device in the form of a stylus. The first indicating data is sensed by the stylus from first coded data. The first interface includes the first coded data. The camera includes a camera module, an input module and a printing module. The camera module includes an image sensor. The camera module is configured to receive a user input, and, in response to the user input, capture the image via the image sensor. The input module is configured to receive the first indicating data from the stylus, the first indicating data being at least partially indicative of response data. The input module generates second indicating data based on the first indicating data, the second indicating data being

at least partially indicative of the response data. The second indicating data is sent to a computer system. The printing module includes a printing mechanism. The printing module is configured to receive the image from the camera module and print the first interface onto the first surface using the printing mechanism. The first interface is based at least partly on the image. The printing module is also configured to receive the response data from the computer system and print the second interface onto the second surface using the printing mechanism. The second interface is based at least partially on the response data.

#### French Abstract

L'invention concerne un appareil photo permettant de capturer une image et d'imprimer, d'une part, une premiere interface sur une premiere surface suite a une entree de l'utilisateur et, d'autre part, une seconde interface sur une seconde surface suite aux premieres donnees d'indication transmises par un capteur presentant la forme d'un stylet. Les premieres donnees d'indication sont captees par le stylet a partir des premieres donnees codees. La premiere interface comprend les premieres donnees codees. L'appareil photo comprend un module appareil photo et un module imprimante. Le module appareil photo comprend un capteur d'image. Il est conçu pour recevoir une entree de l'utilisateur, et, suite a cette entree, pour capturer l'image par l'intermediaire du capteur d'image. Le module d'entree est conçu pour recevoir les premieres donnees d'indication transmises par le stylet, ces donnees representant, au moins en partie, les donnees de reponse. Le module d'entree produit des secondes donnees d'indication basees sur les premieres donnees d'indication. Ces secondes donnees representent, au moins en partie, les donnees de reponse. Les secondes donnees d'indication sont transmises a un systeme informatique. Le module imprimante comprend un mecanisme d'impression. Il est conçu pour recevoir l'image transmise par le module appareil photo et pour imprimer la premiere interface sur une premiere surface par l'intermediaire du mecanisme d'impression. Le module imprimante est egalement conçu pour recevoir les donnees de reponse transmises par le systeme informatique et pour imprimer la seconde interface sur la seconde surface par l'intermediaire du mecanisme d'impression. La seconde interface se fonde, au moins en partie, sur les donnees de reponse.

#### Legal Status (Type, Date, Text)

Publication 20010111 A1 With international search report.

Examination 20010315 Request for preliminary examination prior to end of  
19th month from priority date

...International Patent Class: G06F-003/12

Fulltext Availability:

Detailed Description

#### Detailed Description

... following discussion, when reference is made to the secure transmission of information between a netpage **printer** and a server, what actually happens is that the **printer** obtains the **server's certificate**, **authenticates** it with reference to the certificate authority, uses the **public key** -exchange key in the certificate to exchange a **secret session key** with the server, and then uses the **secret session key** to encrypt the message data in readonly memory in the **printer** and in the netpage registration server database. The first ID 62 is public and uniquely...

...connects to the netpage network for the first time after installation, it creates a signature **public / private key** pair. It transmits the **secret ID** and the **public key** securely to the netpage registration server. The server compares the **secret ID** against the **printer's secret ID** recorded in its database, and accepts the registration if the IDs match. It then creates and signs a certificate containing the **printer's public ID** and **public signature key**, and stores the certificate in the registration database.

The netpage registration server acts as a certificate authority for

netpage printers , since it has access to secret information allowing it to verify printer identity.

When a...

...to the user's default printer or a specified printer. Every document sent to a **printer** via a page server is addressed to a particular user and is signed by the publisher using the publisher's **private** signature **key**. The page **server verifies**, via the registration database, that the publisher is authorized to deliver the publication to the specified user. The page **server verifies** the signature using the publisher's public key, obtained from the publisher's certificate stored...

**28/5,K/11 (Item 11 from file: 349)**

DIALOG(R)File 349:PCT FULLTEXT  
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00759082 \*\*Image available\*\*

**NETWORK PUBLISHING AUTHORIZATION PROTOCOL**  
**PROTOCOLE D'AUTORISATION DE PUBLIER POUR RESEAU**

**Patent Applicant/Assignee:**

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AU (Residence), AU (Nationality), (For all designated states except: US  
)

SILVERBROOK Kia, Silverbrook Research Pty Ltd, 393 Darling Street,  
Balmain, NSW 2041, AU, AU (Residence), AU (Nationality), (For all  
designated states except: US )

**Patent Applicant/Inventor:**

LAPSTUN Paul, 13 Duke Avenue, Rodd Point, NSW 2046, AU, AU (Residence),  
AU (Nationality), (Designated only for: US)

**Patent and Priority Information (Country, Number, Date):**

Patent: WO 200072505 A1 20001130 (WO 0072505)

Application: WO 2000AU541 20000524 (PCT/WO AU00000541)

Priority Application: AU 99559 19990525; AU 991313 19990630

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE  
DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC  
LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI  
SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE  
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: H04L-009/32

International Patent Class: G06F-003/12

Publication Language: English

Filing Language: English

**Fulltext Availability:**

Detailed Description

Claims

Fulltext Word Count: 30383

**English Abstract**

A network publishing authorization protocol, for use in a network connected to a printer, a server and a publisher of network publications. The protocol authorizes the printing of a publication at the printer. It includes the steps of: addressing the publication to a user; signing the publication using a private key; sending the publication to the printer; and confirming that the publication may be printed at the printer, by verifying the private key signature. Confirmation may take place at the printer or at the server.

**French Abstract**

L'invention porte sur un protocole d'autorisation de publier pour reseau relie a une imprimante a un serveur et a un editeur de publications du reseau. Ledit protocole, qui autorise l'impression d'une publication sur une imprimante, comprend les phases suivantes: adressage d'une publication a un abonne, signature de la publication a l'aide d'un code

privé; transfert de la publication à l'imprimante, et confirmation de l'autorisation d'impression par vérification de la signature par code privé, ladite confirmation pouvant se faire au niveau de l'imprimante ou du serveur.

Legal Status (Type, Date, Text)

Publication 20001130 A1 With international search report.

Examination 20010222 Request for preliminary examination prior to end of 19th month from priority date

Main International Patent Class: H04L-009/32

International Patent Class: G06F-003/12

Fulltext Availability:

Detailed Description

Detailed Description

... also involve verifying the publisher's signature at the second server using the publisher's **public key**, obtained from the first **server**. It may also involve **verifying** at the second **server** that the **printer** is registered for the user, by accessing the first server. If the confirmation succeeds, the...following discussion, when reference is made to the secure transmission of information between a netpage **printer** and a server, what actually happens is that the **printer** obtains the **server**'s **certificate**, **authenticates** it with reference to the certificate authority, uses the **public key**-exchange key in the certificate to exchange a **secret session key** with the server, and then uses the secret session key to encrypt the message data...the registration if the IDs match. It then creates and signs a certificate containing the **printer**'s public ID and public signature key, and stores the certificate in the registration database...

...verifies that the printer is a registered netpage printer by verifying the signature using the **printer**'s **public** signature **key** from the **printer**'s certificate, available from the registration server. The netpage registration server can act as a certificate authority for the **printer** since it has privileged access to secret information allowing it to verify **printer** identity.

As an alternative to the **printer** generating the signature **public / private key** pair when it registers, the **private key** 92 can be stored in the **printer**'s ROM at time of manufacture and the matching **public key** 91 stored in the registration server database at time of manufacture, obviating the need for the secret H) 90.

As another alternative, **printer** registration can utilize the same technique used for pen registration, as described below.

3 1...

...I 1, that the terminal is authorized to print on the specified printer. The registration **server verifies**, via the Web terminal record 809 in the registration server database, that the terminal is authorized to print to the **printer**, and verifies the digital signature using the terminal's **public key** 95.

The user can print a list of current printing authorizations at any time, and...

28/5,K/12 (Item 12 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00759080 \*\*Image available\*\*

INTERACTIVE DEVICE NETWORK REGISTRATION PROTOCOL

PROTOCOLE D'ENREGISTREMENT RESEAU DE DISPOSITIF INTERACTIF

Patent Applicant/Assignee:

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SILVERBROOK Kia, Silverbrook Research Pty Ltd, 393 Darling Street,  
Balmain, New South Wales 2041, AU, AU (Residence), AU (Nationality),  
(For all designated states except: US )

Patent Applicant/Inventor:

LAPSTUN Paul, 13 Duke Avenue, Rodd Point, New South Wales 2046, AU, AU  
(Residence), AU (Nationality), (Designated only for: US)

Patent and Priority Information (Country, Number, Date):

Patent: WO 200072503 A1 20001130 (WO 0072503)

Application: WO 2000AU543 20000524 (PCT/WO AU0000543)

Priority Application: AU 99559 19990525; AU 991313 19990630; AU 20005829  
20000224

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE  
DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC  
LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI  
SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE  
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: H04L-009/30

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 29305

English Abstract

In a network connected to an interactive device and a registration server, a protocol for registering the interactive device with the registration server, including the steps of: installing a secret key and a public unique identifier in non-volatile memory in the interactive device and in a database of the registration server, before the interactive device is connected to the network; then, when the interactive device is connected to the network, authenticating the interactive device at the server by verifying the interactive device's encryption, using the secret key, of a challenge message; and finally, if the authentication succeeds, registering the interactive device in the database of the registration server.

French Abstract

Cette invention a trait a un protocole d'enregistrement de dispositif interactif a un serveur d'enregistrement dans un reseau connecte a un dispositif interactif et a un serveur d'enregistrement. Ce protocole comporte les operations suivantes : mise en place d'une clef secrete et d'un identificateur unique public dans la memoire remanente du dispositif interactif et dans une base de donnees du serveur d'enregistrement avant la connexion du dispositif interactif au reseau puis, une fois le dispositif interactif connecte au reseau, authentification du dispositif interactif aupres du serveur par verification dans un message test du chiffrage du dispositif interactif, lequel chiffrage utilise la clef secrete et enfin, si l'authentification aboutit, enregistrement du dispositif interactif dans la base de donnees du serveur d'enregistrement.

Legal Status (Type, Date, Text)

Publication 20001130 A1 With international search report.

Examination 20010222 Request for preliminary examination prior to end of  
19th month from priority date

Main International Patent Class: H04L-009/30

Fulltext Availability:

Detailed Description

Detailed Description

... following discussion, when reference is made to the secure transmission of information between a netpage **printer** and a server, what actually happens is that the **printer** obtains the **server**'s

**certificate** , **authenticates** it with reference to the certificate authority, uses the **public key** -exchange key in the certificate to exchange a **secret session key** with the server, and then uses the secret session key to encrypt the message data...

...registration if the H)s match. It then creates and signs a certificate containing the **printer** 's public ID and public signature key, and stores the certificate in the registration database...

...verifies that the printer is a registered netpage printer by verifying the signature using the **printer** 's **public signature key** from the **printer** 's certificate, available from the registration server. The netpage registration server can act as a certificate authority for the **printer** since it has privileged access to secret information allowing it to verify **printer** identity.

As an alternative to the **printer** generating the **signature public / private key** pair when it registers, the **private key** 92 can be stored in the **printer** 's ROM at time of manufacture and the matching **public key** 91 stored in the registration server database at time of manufacture, obviating the need for the secret H) 90.

As another alternative, **printer** registration can utilize the same technique used for pen registration, as described below.

3 1...1 1, that the terminal is authorized to print on the specified printer. The registration **server verifies**, via the Web terminal record 809 in the registration server database, that the terminal is authorized to print to the **printer**, and verifies the digital signature using the tenninal's **public key** 95.

The user can print a list of current printing authorizations at any time, and...

28/5/13 (Item 13 from file: 349)  
DIALOG(R) File 349:PCT FULLTEXT  
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00759076 \*\*Image available\*\*  
**NETWORK PRINTER REGISTRATION PROTOCOL**  
**PROTOCOLE D'ENREGISTREMENT D'UNE IMPRIMANTE DANS UN RESEAU**  
Patent Applicant/Assignee:  
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AU (Residence), AU (Nationality), (For all designated states except: US  
)  
SILVERBROOK Kia, Silverbrook Research Pty Ltd, 393 Darling Street,  
Balmain, NSW 2041, AU, AU (Residence), AU (Nationality), (For all  
designated states except: US )

Patent Applicant/Inventor:  
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Legal Representative:  
SILVERBROOK Kia, Silverbrook Research Pty Ltd, 393 Darling Street,  
Balmain, NSW 2041, AU

Patent and Priority Information (Country, Number, Date):  
Patent: WO 200072499 A1 20001130 (WO 0072499)  
Application: WO 2000AU540 20000524 (PCT/WO AU0000540)  
Priority Application: AU 99559 19990525; AU 991313 19990630  
Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE  
DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC  
LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI  
SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE  
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: H04L-009/00  
International Patent Class: H04L-012/24

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 29585

#### English Abstract

In a network connected to a printer and a registration server, a network registration protocol for registering the printer on the network includes the steps of installing a secret unique identifier and public unique identifier in non-volatile memory in the printer and in a database of the registration server, before the printer is connected to the network; then, when the printer is connected to the network, authenticating the printer to the server by comparison of the secret unique identifiers installed in printer and server, using a secure transmission between the two over the network. Also a network registration signal for transmission over a network from a printer to a registration server to register the printer with the server, where the signal is transmitted at the first occasion the printer is connected to the network.

#### French Abstract

Dans un reseau relie a une imprimante et a un serveur d'enregistrement, on utilise pour enregistrer l'imprimante dans le reseau un protocole d'enregistrement comportant les phases suivantes: installation d'un identificateur secret unique et d'un identificateur publique unique dans une memoire non volatile de l'imprimante et dans la base d'enregistrement du serveur avant de raccorder l'imprimante au reseau; apres raccordement de l'imprimante, authentification imprimante/serveur par comparaison entre les identificateurs secrets uniques de l'imprimante et du serveur; et utilisation d'une transmission sure transitant par le reseau entre l'imprimante et le serveur. L'invention porte egalement sur le signal d'enregistrement de l'imprimante dans le serveur d'enregistrement, transitant par le reseau et allant de l'imprimante au serveur, et transmis lorsque l'imprimante est reliee pour la premiere fois au reseau.

#### Legal Status (Type, Date, Text)

Publication 20001130 A1 With international search report.

Examination 20010215 Request for preliminary examination prior to end of  
19th month from priority date

?t28/5, k/14-18

28/5,K/14 (Item 14 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00758749 \*\*Image available\*\*

METHOD AND SYSTEM FOR DISTRIBUTING DOCUMENTS

PROCEDE ET SYSTEME POUR LA DISTRIBUTION DE DOCUMENTS

Patent Applicant/Assignee:

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US)

Patent Applicant/Inventor:

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NO (Nationality), (Designated only for: US )

SILVERBROOK Kia, Silverbrook Research Pty Ltd, 393 Darling Street,  
Balmain, NSW 2041, AU, AU (Residence), AU (Nationality), (Designated  
only for: US )

Legal Representative:

SILVERBROOK RESEARCH PTY LTD, 393 Darling Street, Balmain, NSW 2041, AU

Patent and Priority Information (Country, Number, Date):

Patent: WO 200072137 A1 20001130 (WO 0072137)

Application: WO 2000AU559 20000524 (PCT/WO AU0000559)

Priority Application: AU 99559 19990525; AU 991313 19990630

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE  
DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC

LK LR LS LT LU LV MA [REDACTED] MG MK MN MW MX MZ NO NZ PL PT RU SD SE SG SI  
SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE  
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: G06F-003/12

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 27366

#### English Abstract

A method of distributing documents, via a communications network, to a plurality of receiving stations associated with a plurality of users. At least one document layout is pointcast to each receiving station, the document layout being associated with a predetermined user and defining one or more data objects such as text, images and graphics. Collections of shared data objects are then multicast, via the communications network, to the receiving stations on the basis of the respective users' document layouts. Each collection is only transmitted to those receiving stations whose users' document layouts include data objects in that collection.

#### French Abstract

L'invention concerne un procede de distribution de documents, par un reseau de communication, a plusieurs stations receptrices associees a plusieurs utilisateurs. Au moins une presentation de document est envoyee par diffusion a destination unique a chaque station receptrice, la presentation du document etant associee a un utilisateur predetermine et definissant un ou plusieurs objets de donnees, tels que le texte, les images et les motifs graphiques. Des collections d'objets de donnees partages sont ensuite envoyees par multidiffusion, par le reseau de communications, aux stations receptrices, en fonction des presentations des documents des utilisateurs respectifs. Chaque collection n'est transmise qu'aux stations receptrices dont les presentations de documents d'utilisateur comprennent les objets de donnees de ladite collection.

#### Legal Status (Type, Date, Text)

Publication 20001130 A1 With international search report.

Examination 20010222 Request for preliminary examination prior to end of 19th month from priority date

Main International Patent Class: G06F-003/12

Fulltext Availability:

Detailed Description

#### Detailed Description

... following discussion, when reference is made to the secure transmission of information between a netpage **printer** and a server, what actually happens is that the **printer** obtains the **server**'s **certificate**, **authenticates** it with reference to the certificate authority, uses the **public key**-exchange key in the certificate to exchange a **secret session key** with the server, and then uses the **secret session key** to encrypt the message data...

...of unique identifiers at time of manufacture which are stored in readonly memory in the **printer** and in the netpage registration server database. The first ID 62 is public and uniquely...

...connects to the netpage network for the first time after installation, it creates a signature **public / private key** pair. It transmits the **secret ID** and the **public key** securely to the netpage registration server. The server compares the **secret ID** against the **printer**'s **secret ID** recorded in its database, and accepts the registration if the IDs match. It then creates and signs a certificate containing the **printer**'s public ID and **public signature key**, and stores the

certificate in the registration database.

The netpage registration server acts as a certificate authority for netpage printers , since it has access to secret information allowing it to verify printer identity.

-26 When...

...to the user's default printer or a specified printer. Every document sent to a **printer** via a page server is addressed to a particular user and is signed by the publisher using the publisher's **private** signature **key** . The page **server verifies** , via the registration database, that the publisher is authorized to deliver the publication to the specified user. The page **server verifies** the signature using the publisher's public key, obtained from the publisher's certificate stored...

**28/5,K/15 (Item 15 from file: 349)**

DIALOG(R)File 349:PCT FULLTEXT  
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00758748 \*\*Image available\*\*

**NETWORK TERMINAL AUTHORIZATION PROTOCOL**  
**PROTOCOLE D'AUTORISATION POUR TERMINAL DE RESEAU**

**Patent Applicant/Assignee:**

SILVERBROOK RESEARCH PTY LTD, 393 Darling Street, Balmain, NSW 2041, AU,  
AU (Residence), AU (Nationality), (For all designated states except: US  
)

SILVERBROOK Kia, Silverbrook Research Pty Ltd, 393 Darling Street,  
Balmain, NSW 2041, AU, AU (Residence), AU (Nationality), (For all  
designated states except: US )

**Patent Applicant/Inventor:**

LAPSTUN Paul, 13 Duke Avenue, Rodd Point, NSW 2046, AU, AU (Residence),  
AU (Nationality), (Designated only for: US)

**Patent and Priority Information (Country, Number, Date):**

Patent: WO 200072136 A1 20001130 (WO 0072136)

Application: WO 2000AU542 20000524 (PCT/WO AU0000542)

Priority Application: AU 99559 19990525; AU 991313 19990630

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE  
DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC  
LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI  
SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE  
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: G06F-003/12

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 29425

**English Abstract**

A network terminal authorization protocol, for use in a network connected to a printer, a server and a network terminal. The protocol authorizes, via the server, the printing of a document at the printer at the request of the network terminal. It includes the steps of: creating, at the server, an authorization record authorizing the network terminal to print at the printer; requesting, at the network terminal and via a printing request, printing of the document at the printer; verifying, using the authorization record, that the network terminal is authorized to print at the printer; and, in the event that the verification succeeds, sending the document to the printer for printing.

**French Abstract**

L'invention concerne un protocole d'autorisation pour terminal de reseau,

qui s'utilise dans un reseau relie a une imprimante, un serveur et un terminal de reseau. Le protocole autorise, par l'intermediaire du serveur et a la demande du terminal de reseau, l'impression d'un document au moyen de l'imprimante. Le procede d'utilisation consiste a creer, au niveau du serveur, un enregistrement d'autorisation autorisant le terminal de reseau a imprimer au moyen de l'imprimante; a demander, au niveau du terminal de reseau et par le biais d'une demande d'impression, l'impression du document au moyen de l'imprimante; a verifier, grace a l'enregistrement d'autorisation, que le terminal de reseau est autorise a imprimer au moyen de l'imprimante; et, apres verification concluante, a envoyer le document a l'imprimante pour impression.

Legal Status (Type, Date, Text)

Publication 20001130 A1 With international search report.

Examination 20010222 Request for preliminary examination prior to end of 19th month from priority date

Main International Patent Class: G06F-003/12

Fulltext Availability:

Detailed Description

Claims

#### Detailed Description

... following discussion, when reference is made to the secure transmission of information between a netpage **printer** and a server, what actually happens is that the **printer** obtains the **server**'s **certificate**, **authenticates** it with reference to the certificate authority, uses the **public key**-exchange key in the certificate to exchange a **secret session key** with the server, and then uses the secret session key to encrypt the message data...

...if the H)s

pts,  
match. It then creates and signs a certificate containing the **printer**'s public H) and public signature key, and stores the certificate in the registration database...

...the printer is a registered netpage printer by verifying the signature using the printer's **public** signature **key** from the printer's certificate, available from the registration server. The netpage registration server can act as a certificate authority for the **printer** since it has privileged - 28 access to secret information allowing it to verify **printer** identity.

As an alternative to the **printer** generating the signature **public** / **private key** pair when it registers, the **private key** 92 can be stored in the **printer**'s ROM at time of manufacture and the matching **public key** 91 stored in the registration server database at time of manufacture, obviating the need for the **secret ID** 90.

As another alternative, **printer** registration can utilize the same technique used for pen registration, as described below.

3 1...I 1, that the terminal is authorized to print on the specified printer. The registration **server verifies**, via the Web terminal record 809 in the registration server database, that the terminal is authorized to print to the **printer**, and verifies the digital signature using the terminal's **public key** 95.

The user can print a list of current printing authorizations at any time, and...

#### Claim

... the second server, the verifying step including the sub-steps of requesting, at the second **server** and via a **verification** request sent to the first **server**, **verification**; and **verifying**, at the first **server** and in response to the **verification** request, that the network terminal is

authorized to print at the **printer** .

4 A protocol according to claim 2 or claim 3, including the further steps of allocating, at the network terminal, a public/ **private** signature **key** pair, storing, at the network terminal, the private signature key; and storing, at the first...

28/5,K/16 (Item 16 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT  
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00556014 \*\*Image available\*\*  
**VERIFIABLE ELECTRONIC JOURNAL FOR A POINT OF SALE DEVICE AND METHODS FOR USING THE SAME**  
**JOURNAL ELECTRONIQUE VERIFIABLE POUR DISPOSITIF POINT DE VENTE ET METHODES D'UTILISATION**

Patent Applicant/Assignee:

INTERNATIONAL BUSINESS MACHINES CORPORATION,  
IBM UNITED KINGDOM LIMITED,

Inventor(s):

CONDE Alberto,  
FORTENBERRY Robert,  
HUCABY Wayne,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200019387 A1 20000406 (WO 0019387)  
Application: WO 99GB3105 19990917 (PCT/WO GB9903105)  
Priority Application: US 98164215 19980930

Designated States: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN YU ZA ZW GH GM KE LS MW SD SL SZ TZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

Main International Patent Class: G07G-001/12

Publication Language: English

Fulltext Availability:

Detailed Description  
Claims

Fulltext Word Count: 6354

#### English Abstract

A point of sale device having a verifiable electronic journal system which maintains an electronic journal file in lieu of using a journal print station. Transaction information is first stored in a non-volatile random access memory. A data signature is determined based on the contents of the random access memory for a journal. Both the transaction information and the data signature are transferred to the separate journal memory. The journal memory may, for example, reside on the point of sale terminal and tampering with the journal transaction information may be detected by reference to the data signature which is also transferred and maintained in the electronic journal file. Preferably, the data signature is encrypted such as by a shared key encryption scheme and the associated public key is also transferred and stored in the electronic journal file from the device, such as a fiscal base, which is tracking the transaction information as it is created. A hashing technique is preferably used so that a comparatively small NVRAM may be utilized to support generation of a transaction information set for an electronic journal file for a journal period. Accordingly, the data signature is an encrypted version of a message digest which is a running value reflecting the total of transaction information passed to the electronic journal file during a journal period.

#### French Abstract

Cette invention a trait a un dispositif point de vente possedant un systeme de journal electronique verifiable, lequel systeme tient a jour un fichier de journal electronique au lieu d'utiliser une station

d'impression de journal. Les informations relatives à une transaction sont préalablement stockées dans une mémoire remanente à accès aléatoire. Une signature de données est déterminée d'après le contenu de la mémoire à accès aléatoire concernant un journal. Les informations relatives à la transaction et la signature des données sont transférées vers une mémoire distincte de journal. Cette dernière peut, par exemple, se trouver dans le terminal du point de vente. Une manipulation des informations relatives à la transaction peut être détectée par référence à la signature des données, laquelle, est également transférée et conservée dans le fichier de journal électronique. La signature des données est, de préférence, chiffrée, par exemple au moyen d'un mécanisme de chiffrement par clé partagée, la clé publique associée étant également transférée et conservée dans le fichier de journal électronique depuis le dispositif point de vente, une base fiscale, par exemple assurant la poursuite des informations relatives à la transaction au fur et à mesure de leur création. On utilise, de préférence, une technique de hachage, de sorte qu'il est possible de faire appel à une mémoire remanente à accès aléatoire, comparativement de taille réduite, pour prendre en charge la production du jeu d'informations de transaction concernant un fichier de journal électronique pour une période donnée de celui-ci. En conséquence, la signature de données est une version chiffrée d'une compilation de messages possédant une valeur d'exécution correspondant au total des informations relatives à la transaction introduites dans le fichier de journal électronique durant une période donnée de celui-ci.

Fulltext Availability:

Detailed Description

Detailed Description

... be detected

using the authentication techniques described herein. In the embodiment illustrated in FIG. 5, **printer private key** 132, **printer public key** 134 and

**printer serial number** 136 are all stored in portions of electronically

programmable read only fiscal memory 130. At the end of a journal period, the **printer private key** 132 and message digest 124 are used by encryption

algorithm 138 to generate a data...

...is stored in the data

signature portion 54 of the electronic journal file 50. The **printer public key** 134 and **printer serial number** 136, respectively, are transferred and stored in portions 56 and 58 respectively of the electronic...

28/5,K/17 (Item 17 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00556009 \*\*Image available\*\*

ON-LINE POSTAGE SYSTEM

SYSTEME D'AFFRANCHISSEMENT EN LIGNE

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Application: WO 99US22074 19990923 (PCT/WO US9922074)

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DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
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TR TT UA UG UZ VN YU ZW GH GM KE LS MW SD SL SZ TZ UG ZW AM AZ BY KG  
KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF  
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Detailed Description

Claims

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#### English Abstract

The present invention is directed to a system for providing secured access to a software rental or a postage metering system. The virtual postage meter software of this invention enables a user to print postage indicia on documents, envelopes or labels. To generate valid postage indicia the virtual meter software is executed on a first computer while it is in communication with the remotely located second computer. All communication between the first computer and the second computer utilize data encryption algorithms to preserve the security and integrity of the data transferred. In one embodiment, the second computer is a collection of one or more computers with virtual postage meter enabling software capable of communicating simultaneously to a number of user computers that are concurrently executing the virtual postage meter software. The second computer is connected to one or more US FIPS 140-1 security level 3 or better certified cryptographic devices identified as Postal Security Devices (PSD). The printed postage indicia appears as a two-dimensional barcode that includes digital signature, amount of postage, ZIP code and other relevant information.

#### French Abstract

La presente invention concerne un systeme donnant acces en mode securise a un systeme de location de logiciel ou a une machine a affranchir. Le logiciel de machine a affranchir virtuelle de l'invention permet a l'utilisateur d'imprimer des marques d'affranchissement sur des documents, des enveloppes ou des etiquettes. Pour la generation de marques d'affranchissement valables, le logiciel de machine a affranchir s'execute sur un premier ordinateur en communication avec un second ordinateur hors site. Toutes les communications entre le premier ordinateur et le second ordinateur mettent en oeuvre des algorithmes de cryptage des donnees visant a preserver la securite et l'integrite des donnees transferees. Selon une realisation, le second ordinateur est un ensemble de plusieurs ordinateurs comportant un logiciel de validation de machine a affranchir virtuelle capable de communiquer simultanement avec plusieurs ordinateurs utilisateurs executant simultanement le logiciel de machine a affranchir virtuelle. Le second ordinateur est connecte a au moins un dispositif cryptographique approuve "niveau de securite 3" selon US FIPS 140-1, et identifiable comme PSD i((Postal Security Device)). Les marques d'affranchissement imprimees se presentent sous forme d'un code barres bidimensionnel incluant une signature numerique, le montant de l'affranchissement, le code postal, et toutes autres informations pertinentes.

Fulltext Availability:

Detailed Description

#### Detailed Description

... then sends image information for printing of postal indicium for the granted amount to a **printer** so that a postal indicium is printed on an envelope or label. The printed indicium appears as a two-dimensional barcode that includes a unique **serial number**, mail delivery point information, and the amount of postage.

When a client system sends a postage print request to the PSD **server**, the request must be **authenticated** before the client system is allowed to print the postage, and while the postage is...

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## ELECTRONIC PUBLISHING

## PUBLICACIÓN ELECTRONIQUE

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SL TJ TM TR TT UA UG US UZ VN YU ZW GH GM KE LS MW SD SZ UG ZW AM AZ BY  
KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE  
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#### Detailed Description

**Searched**

Fulltext Word Count: 3929

### English Abstract

This application discloses a method for restricted electronic transmission of information including the steps of encrypting information (#26) using a public key portion (#22) of a private/public key, transmitting the information following encrypting thereof over a medium which may be non-secure, receiving the information, following transmission thereof, at an output device (#14) in encrypted form, decrypting the information, received in encrypted form, at the output device using a private key portion (#20) of the private/public key; and following decryption in the output device, outputting the information (#28) in non-encrypted form. A system for restricted electronic transmission of information is also disclosed.

## French Abstract

L'invention concerne un procede de transmission electronique non transparente d'informations, comprenant les etapes consistant a chiffrer des informations (#26) au moyen d'une portion de cle publique (#22) d'une cle privee/publique, a transmettre ces informations apres leur chiffrement, sur un support qui peut n'etre pas sur, a recevoir les informations, apres leur transmission, au niveau d'un dispositif de sortie (#14), sous forme chifree, a dechiffrer les informations recues sous forme chifree, au niveau du dispositif de sortie, au moyen de la portion de cle privee (#20) de la cle privee/publique, puis apres dechiffrement dans le dispositif de sortie, a produire ces informations (#28) sous une forme non chifree. L'invention concerne egalement un systeme de transmission electronique non transparente d'informations.

#### Fulltext Availability:

### Detailed Description

#### Detailed Description

... the standard billing information, such as a credit card number and a signature and the **public key** or information, such as the **serial number** of the **printer**, enabling the publisher to readily obtain the **public key**.

The publisher, using a computer 24, encrypts the clear file 12, using the public key and a conventional encryption engine which is commercially available from RSA Inc., thus providing an...